

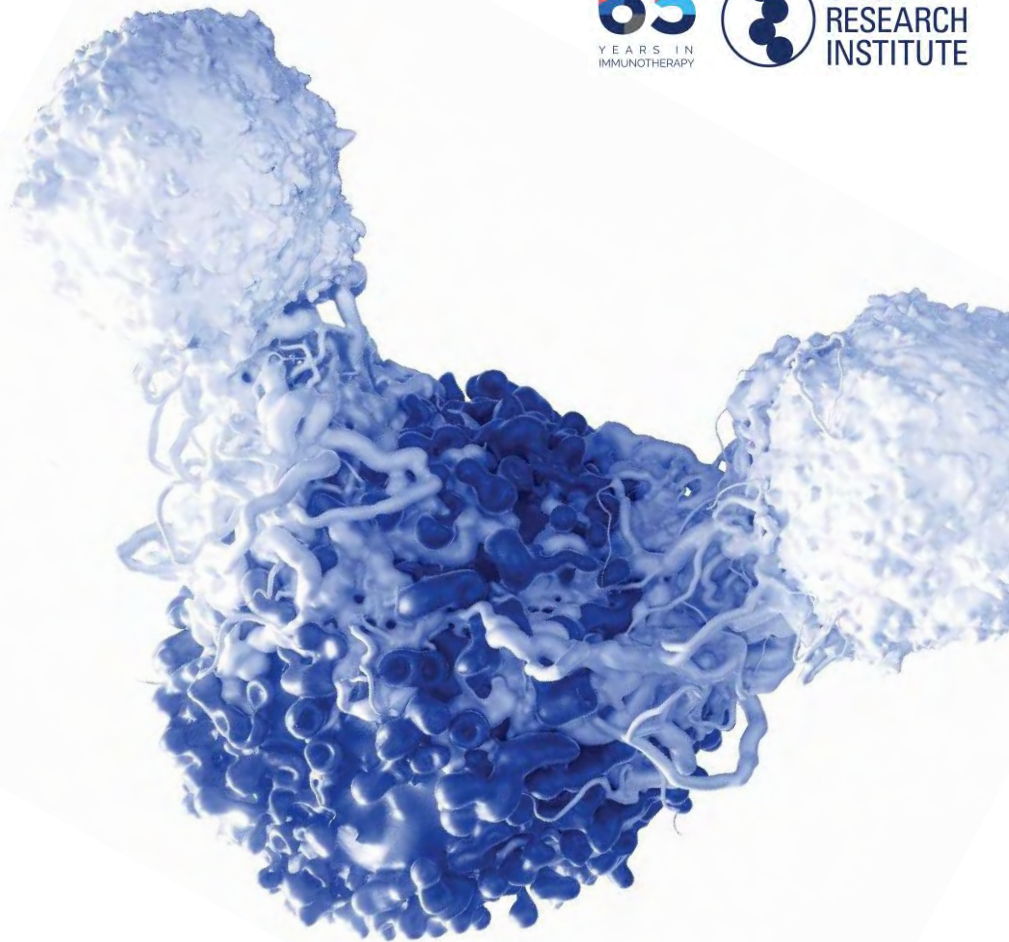
CANCER RESEARCH INSTITUTE

IMMUNOTHERAPY **PATIENT SUMMIT**

San Diego October 27, 2018

Brian Brewer
Cancer Research Institute

WELCOME



Special thanks



SPECIAL THANKS To our San Diego partners



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Thank you to those who helped promote the summit

- Addario Lung Cancer Foundation
- American Cancer Society
- But Doctor I Hate Pink (Ann Silberman)
- Cancer Support Community
- CancerCare
- Colorectal Cancer Alliance
- Fight Colorectal Cancer
- FORCE
- Imerman Angels
- Leukemia & Lymphoma Society
- LUNGeivity Foundation
- Let Life Happen (Barbara Jacoby)
- Patient Empowerment Network
- SHARE
- UC San Diego Moores Cancer Center
- Us TOO
- Young Survival Coalition

Scientific Experts

Ezra Cohen, M.D.

Moore's Cancer Center at UC San Diego Health

Aaron M. Miller, M.D., Ph.D.

Moore's Cancer Center at UC San Diego Health

Sandip P. Patel, M.D.

Moore's Cancer Center at UC San Diego Health

Rebecca A. Shatsky, M.D.

Moore's Cancer Center at UC San Diego Health

Patient Experts

Dan Engel

Melanoma

Kristen Kleinhofer

Acute Lymphoblastic Leukemia (ALL)

Rikki Rockett

Oral Cancer

Rebecca S.

Breast Cancer

Schedule of Events

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9:00 am Registration and networking

10:00 am Program commences

WELCOME

Brian Brewer

10:15 am **HEAR FROM THE EXPERTS**

Presentation: Immunotherapy Basics

Ezra Cohen, M.D.

10:30 am Panel: Research Updates

Moderator

Ezra Cohen, M.D.

Panelists

Aaron M. Miller, M.D., Ph.D.

Sandip P. Patel, M.D.

Rebecca A. Shatsky, M.D.

11:30 am **PATIENT PERSPECTIVE**

Choose Hope, a message from

Kristin Kleinhofer, leukemia survivor

12:00 pm Lunch and networking

1:00 pm **LEARN ABOUT CLINICAL TRIALS**

Brian Brewer

1:15 pm **IMMUNOTHERAPY PATIENT PANEL**

Moderator

Brian Brewer

Panelists

Dan Engel

Rikki Rockett

Rebecca S.

2:00 pm Transition Break

2:15 pm **BREAKOUT SESSIONS**

Your choice of a moderated, deeper-dive Q&A with our experts

General Immunotherapy

Ezra Cohen, M.D.

Breast Cancer

Rebecca A. Shatsky, M.D.

Lung Cancer

Sandip P. Patel, M.D.

Gastrointestinal Cancers

Aaron M. Miller, M.D., Ph.D.

3:15 pm Program closes

9:00 am – 4:00 pm **CLINICAL TRIAL NAVIGATOR APPOINTMENTS**

Appointments are available all day. If you didn't pre-register, but you are interested in scheduling an appointment, please visit the Clinical Trial Navigator desk for more information.

You will receive two emails after the summit:

1. **A survey** to share your feedback on the summit as well as insights into future programming.
2. **Information** from the summit day, including this presentation and instructions on how to use our [Clinical Trial Finder service](#).

Immunotherapy 101

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Ezra Cohen, M.D., F.R.C.P.S.C., F.A.S.C.O.

Professor of Medicine

Associate Director, Translational Science

Co-Director, San Diego Center for Precision Immunotherapy

Moore's Cancer Center

University of California, San Diego School of Medicine



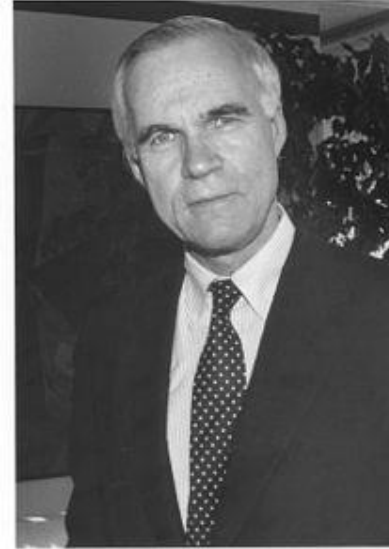
Origin & Revival of Immunotherapy



1890s:
William B. Coley

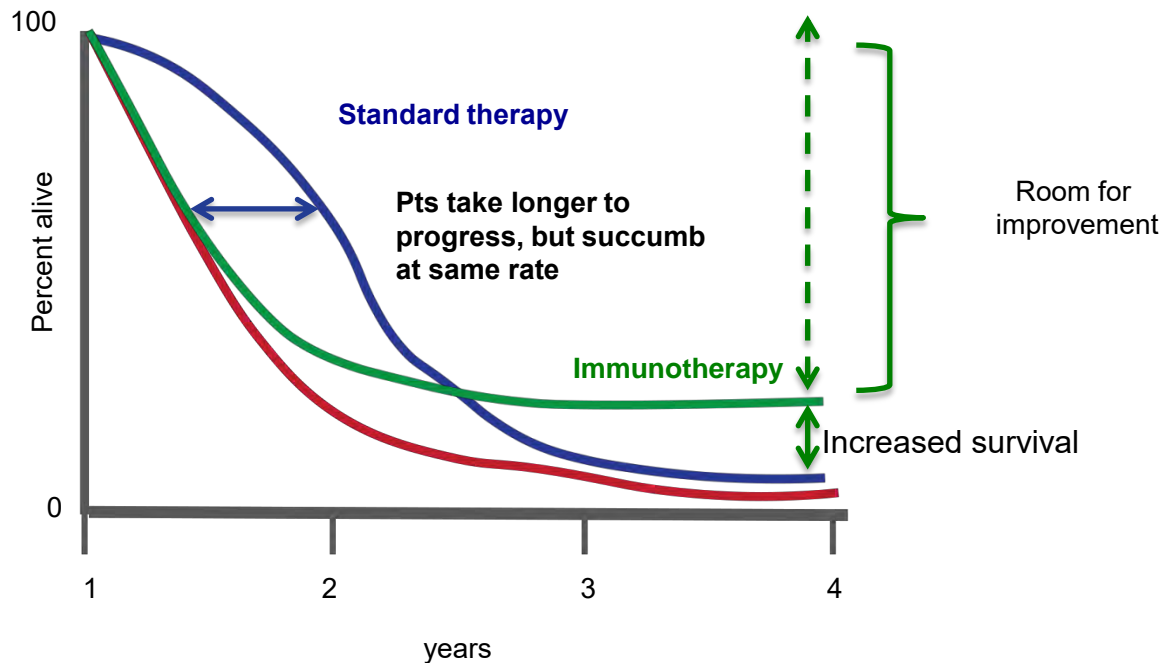


1900s:
Paul Ehrlich



1960s:
Lloyd J. Old

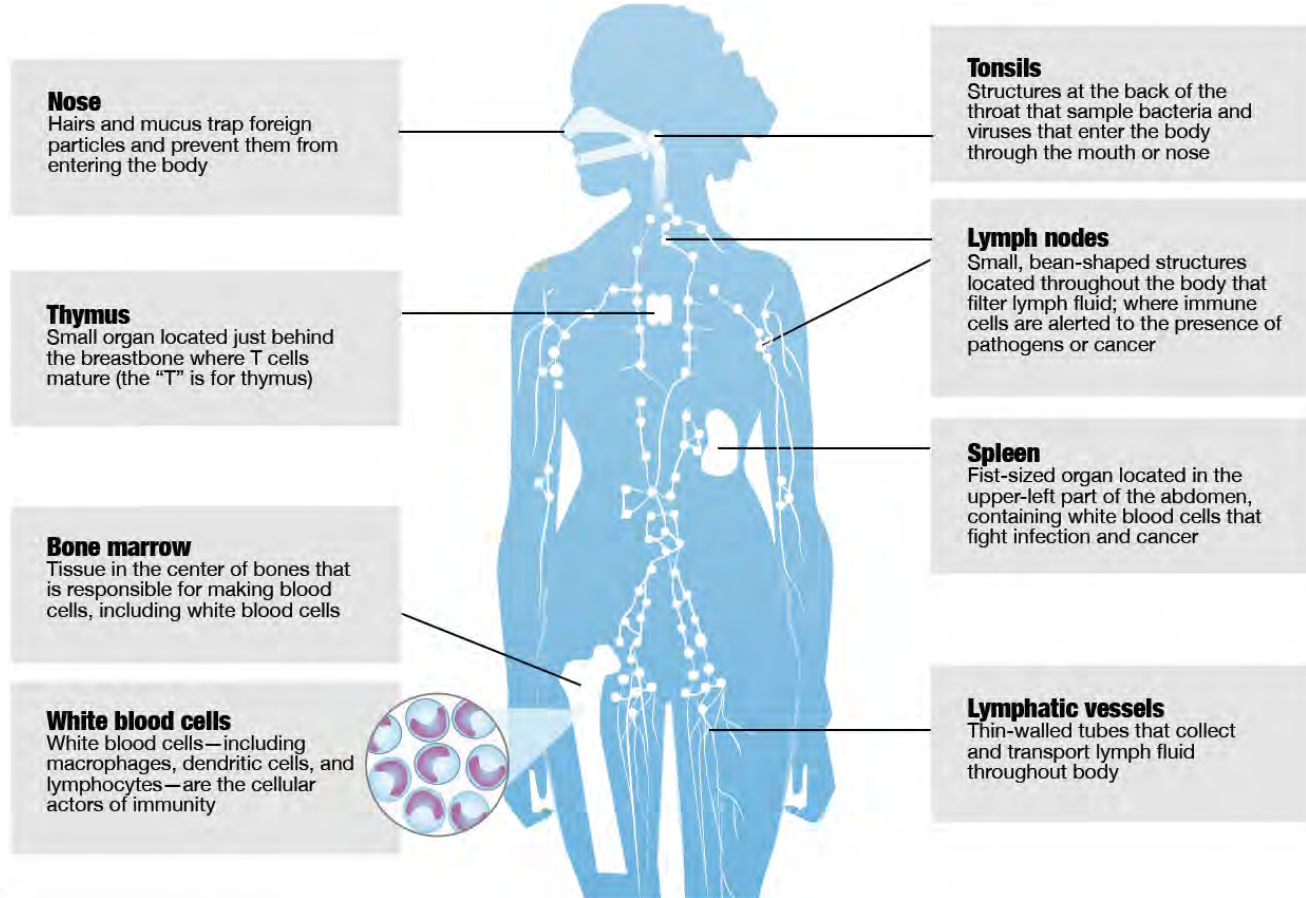
Immunotherapy: A Potential Cure?



The Immune System At a Glance

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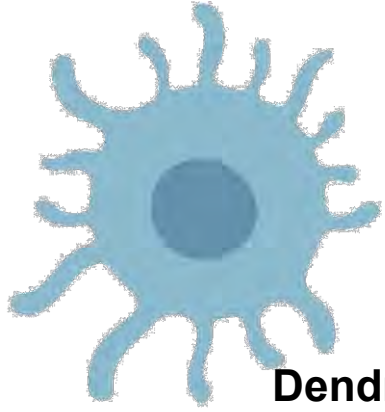
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The Cells of the Immune System

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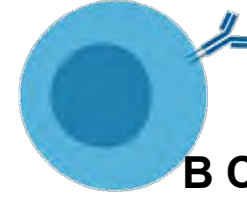
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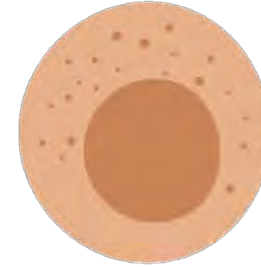
**Dendritic
Cell**



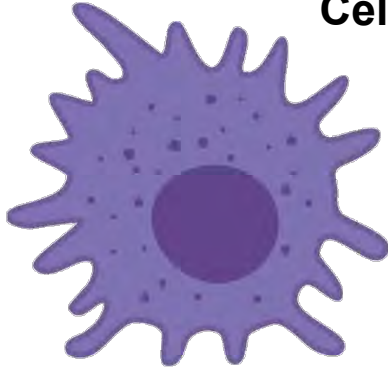
Monocyte



B Cell



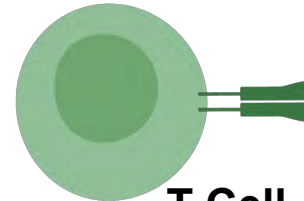
**Natural
Killer Cell**



Macrophage

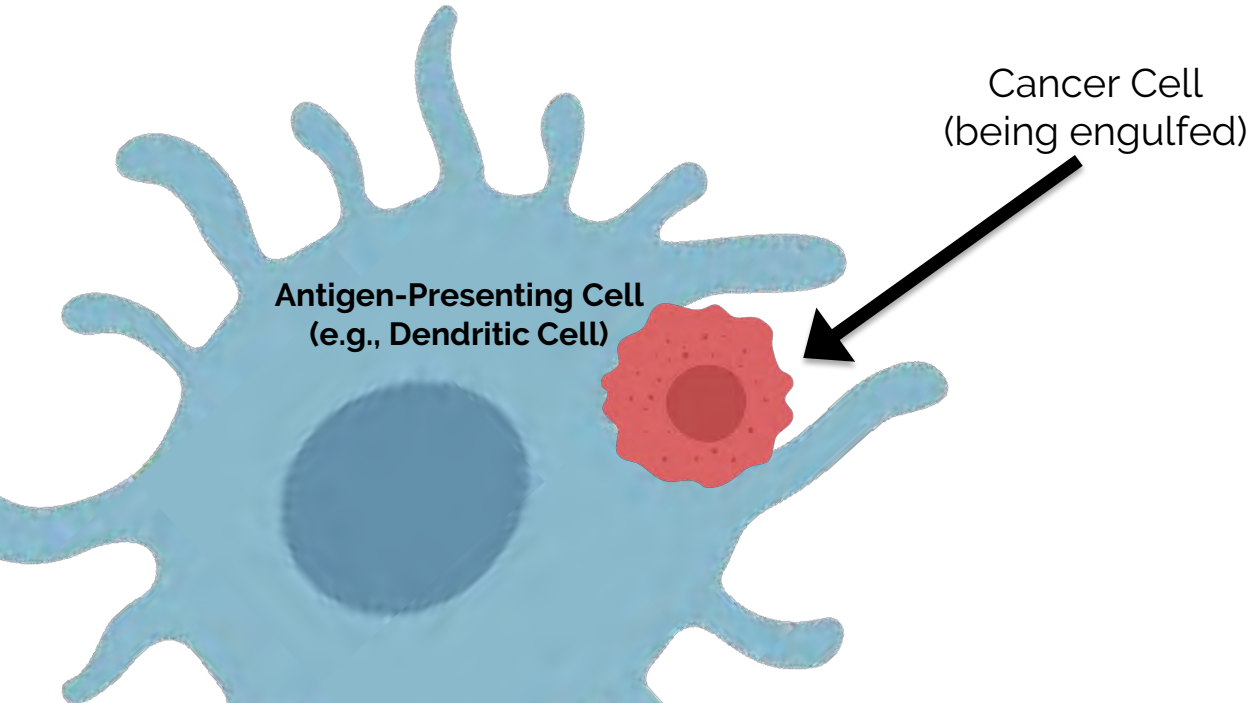


Neutrophil



T Cell

Adaptive Immune Responses Against Cancer

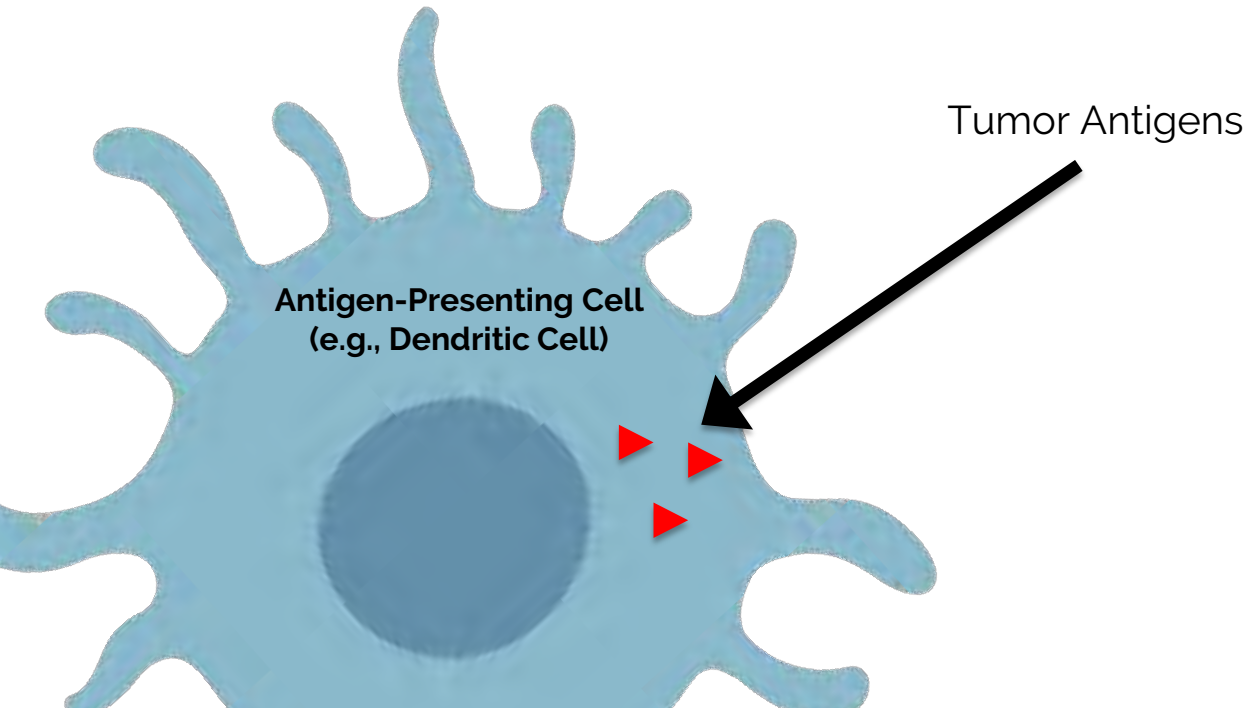


Adaptive Immune Responses Against Cancer

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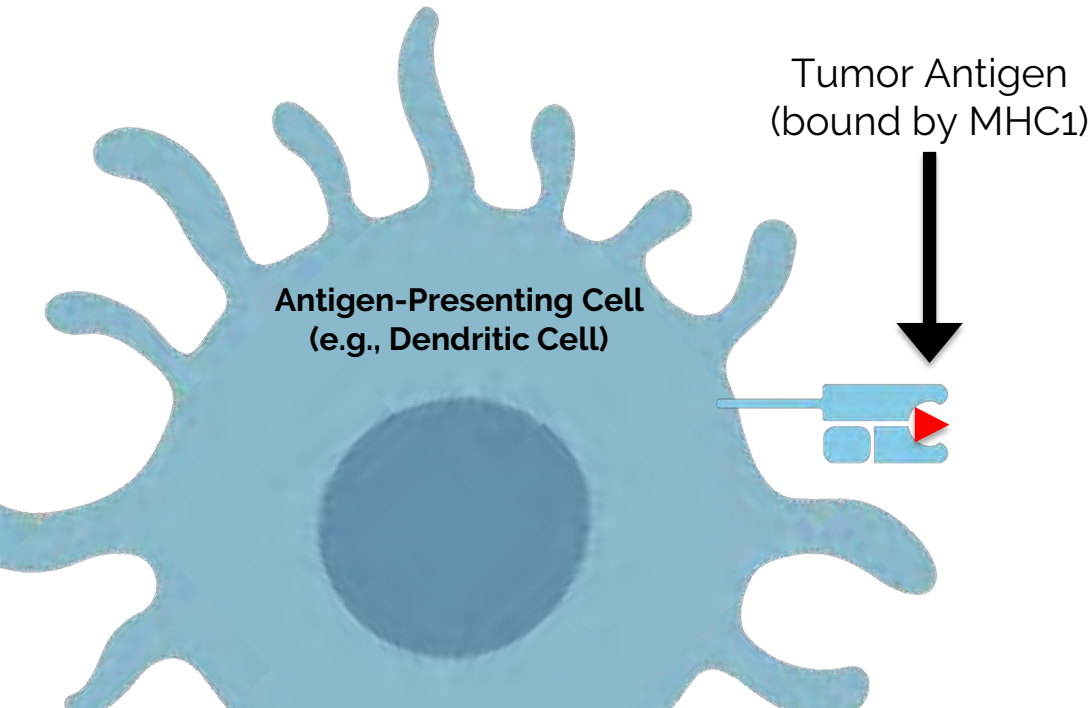


Adaptive Immune Responses Against Cancer

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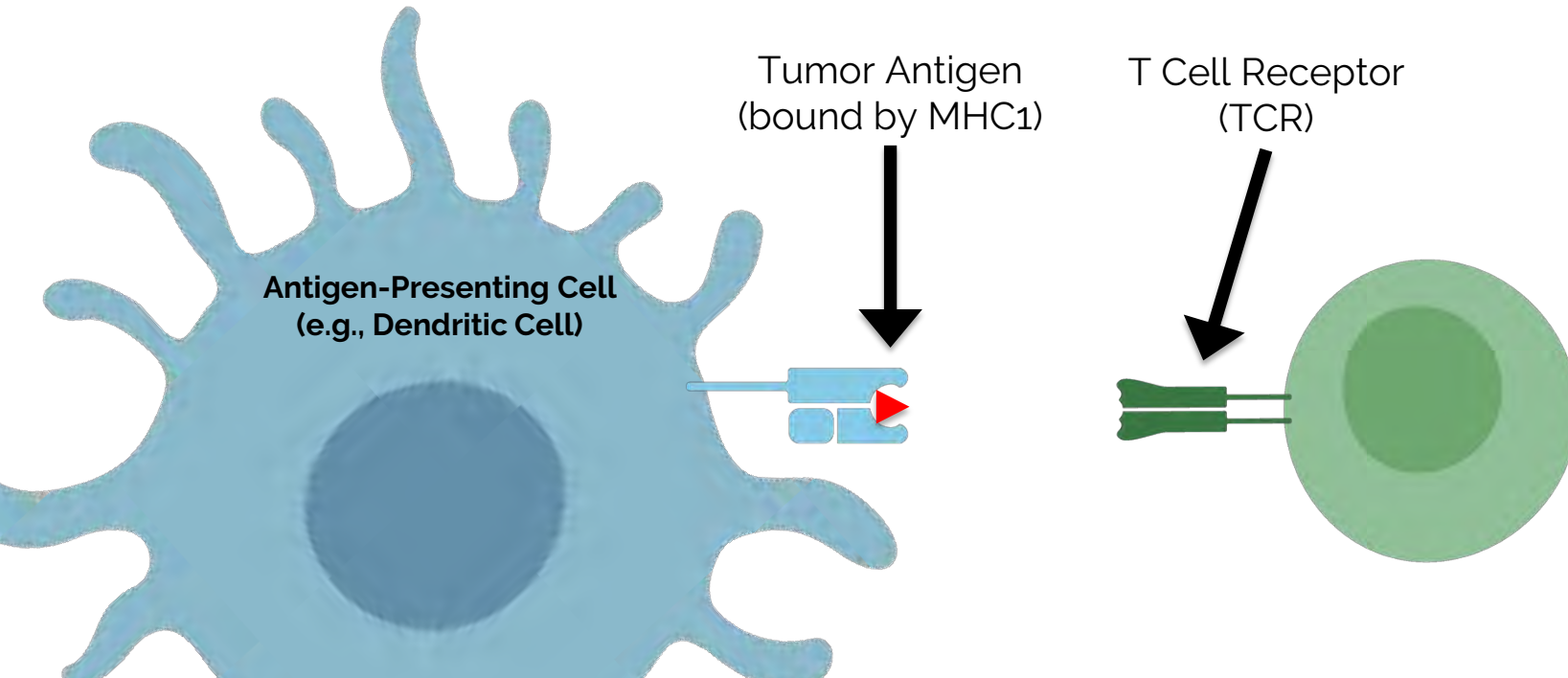


Adaptive Immune Responses Against Cancer

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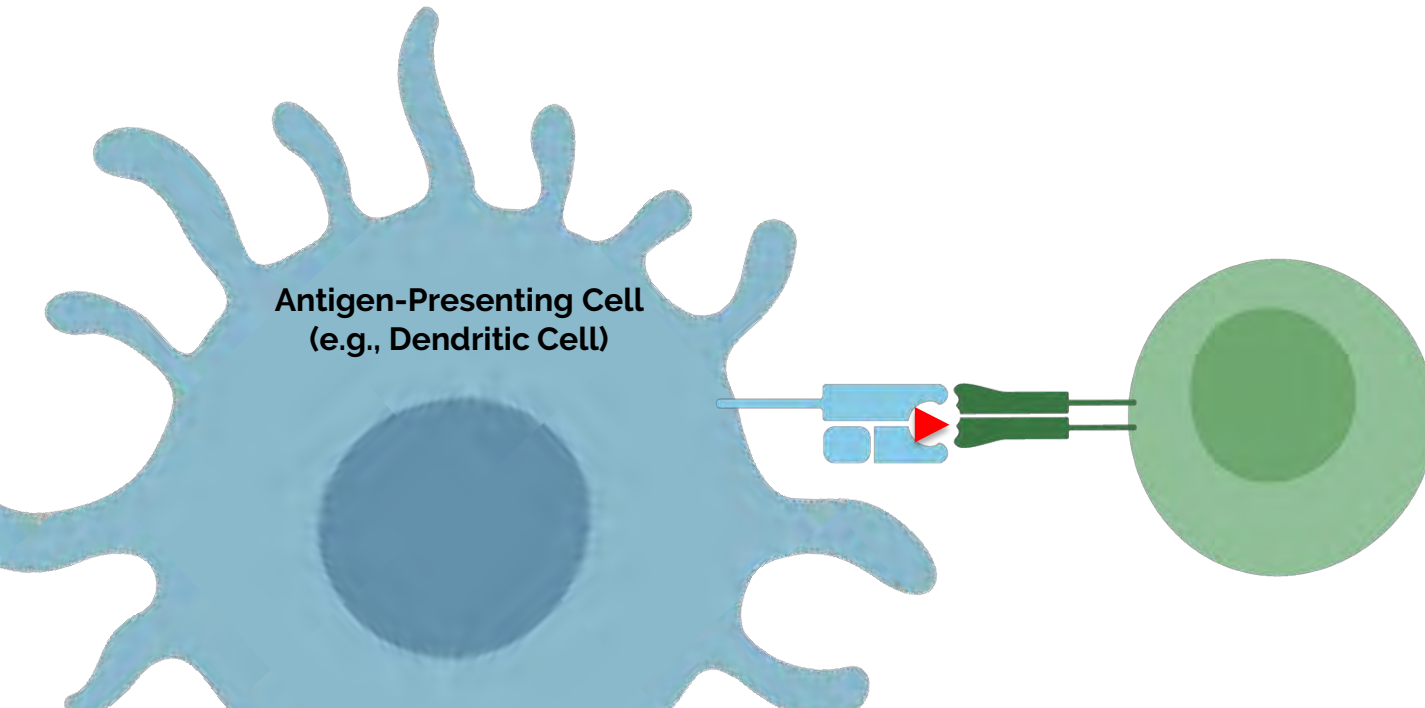


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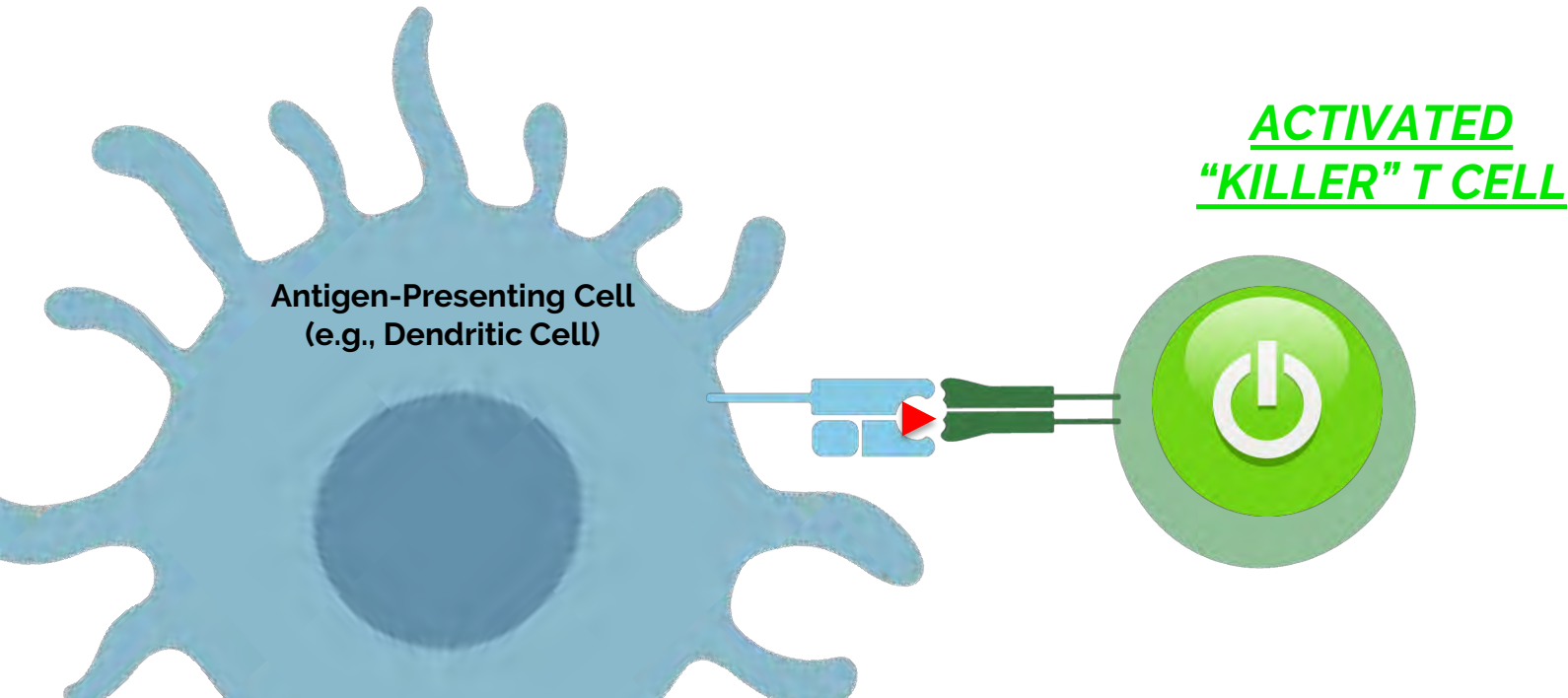


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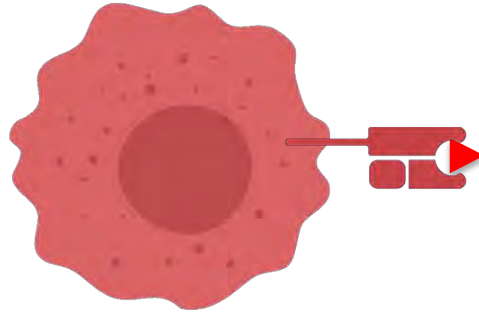
Adaptive Immune Responses Against Cancer

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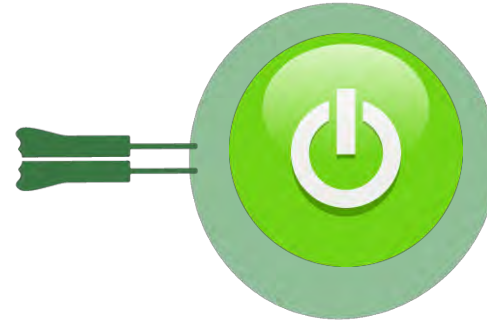
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Cancer Cell



Activated "killer" T Cell

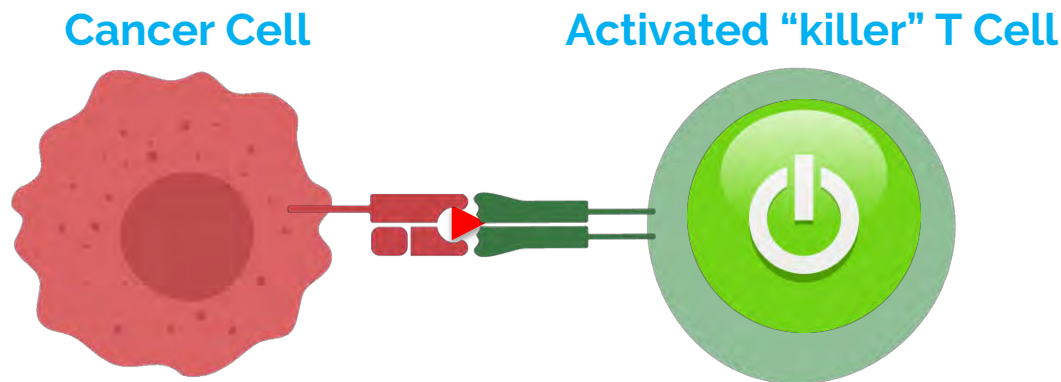


Adaptive Immune Responses Against Cancer

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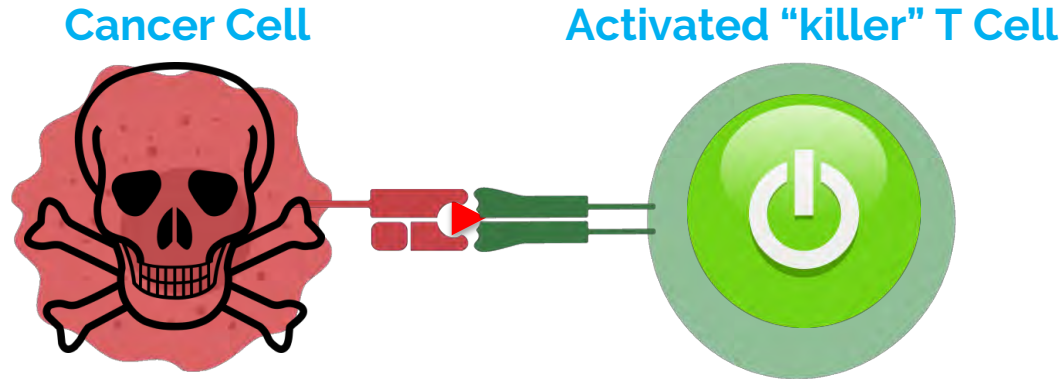


Adaptive Immune Responses Against Cancer

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CANCER CELL ELIMINATED!

Immune Checkpoints Can Suppress Immune Responses

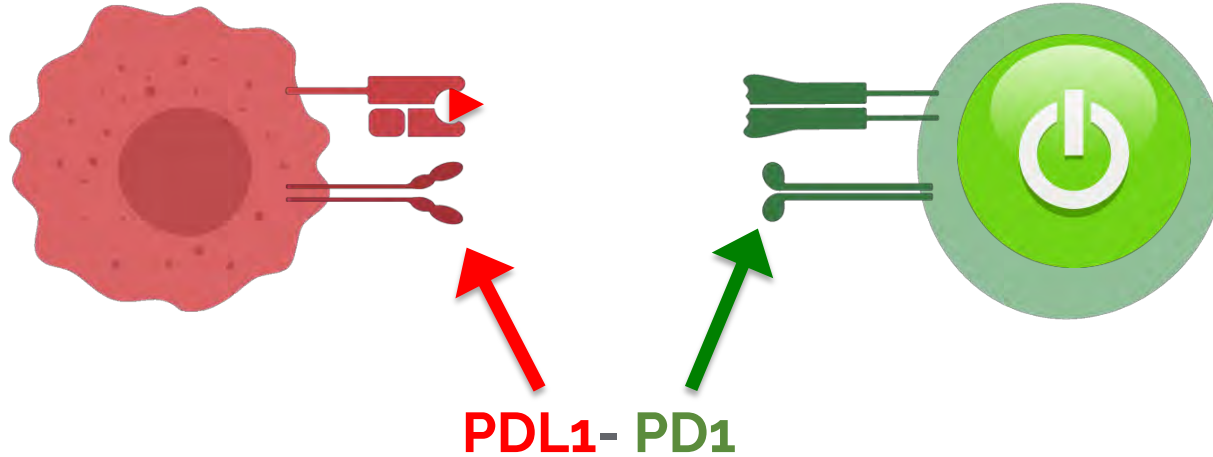
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Cancer Cell

Activated “killer” T Cell



Immune Checkpoints Can Suppress Immune Responses

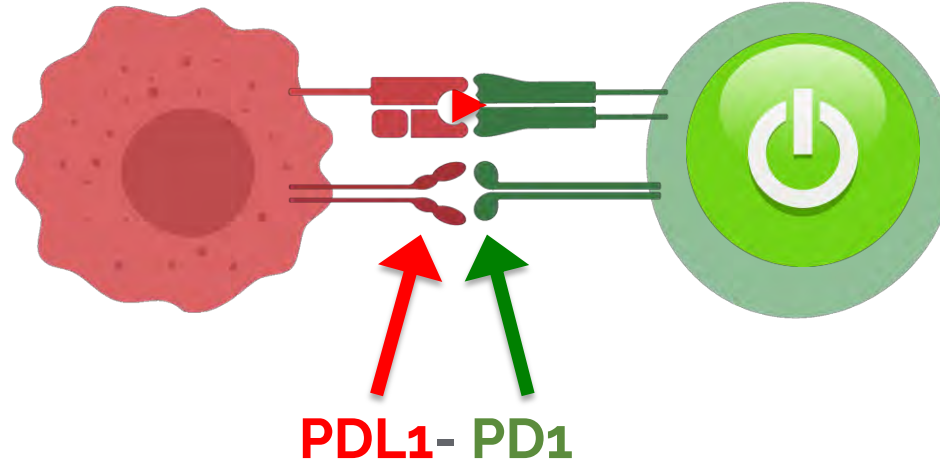
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Activated “killer” T Cell

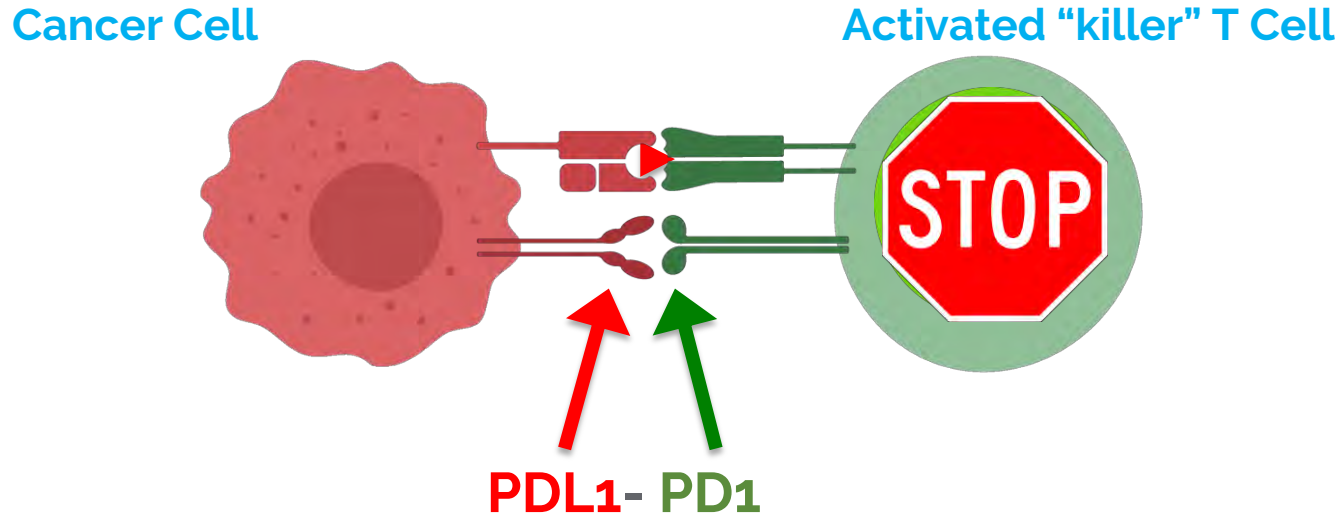


Immune Checkpoints Can Suppress Immune Responses

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Normally, **PDL1**-**PD1** leads to T cell "exhaustion"

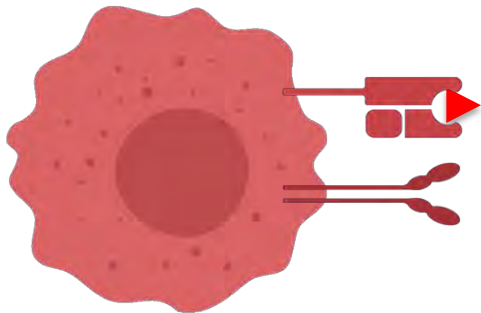
Checkpoint Immunotherapy Can Promote Anti-Cancer Activity

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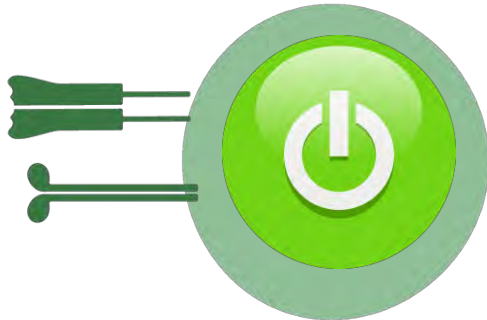
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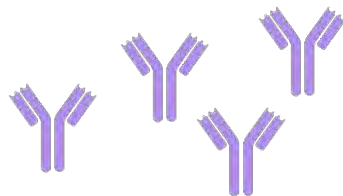
Cancer Cell



Activated “killer” T Cell



PD-1/PD-L1
Checkpoint Inhibitors



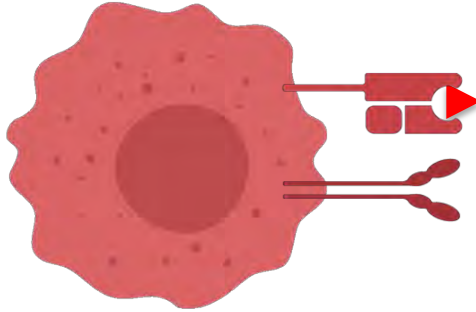
Checkpoint Immunotherapy Can Promote Anti-Cancer Activity

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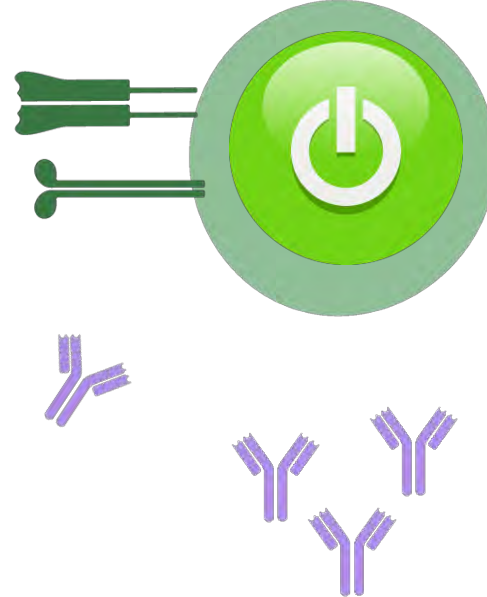
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Cancer Cell



Activated “killer” T Cell



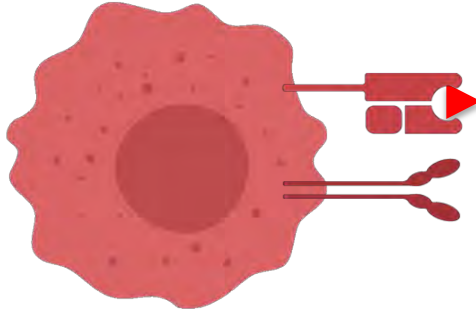
Checkpoint Immunotherapy Can Promote Anti-Cancer Activity

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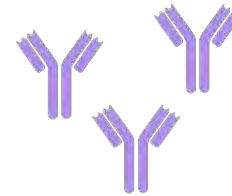
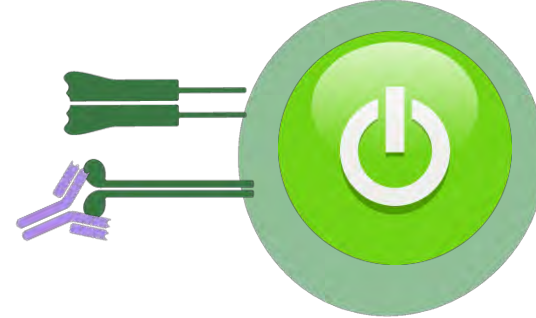
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Cancer Cell



Activated “killer” T Cell

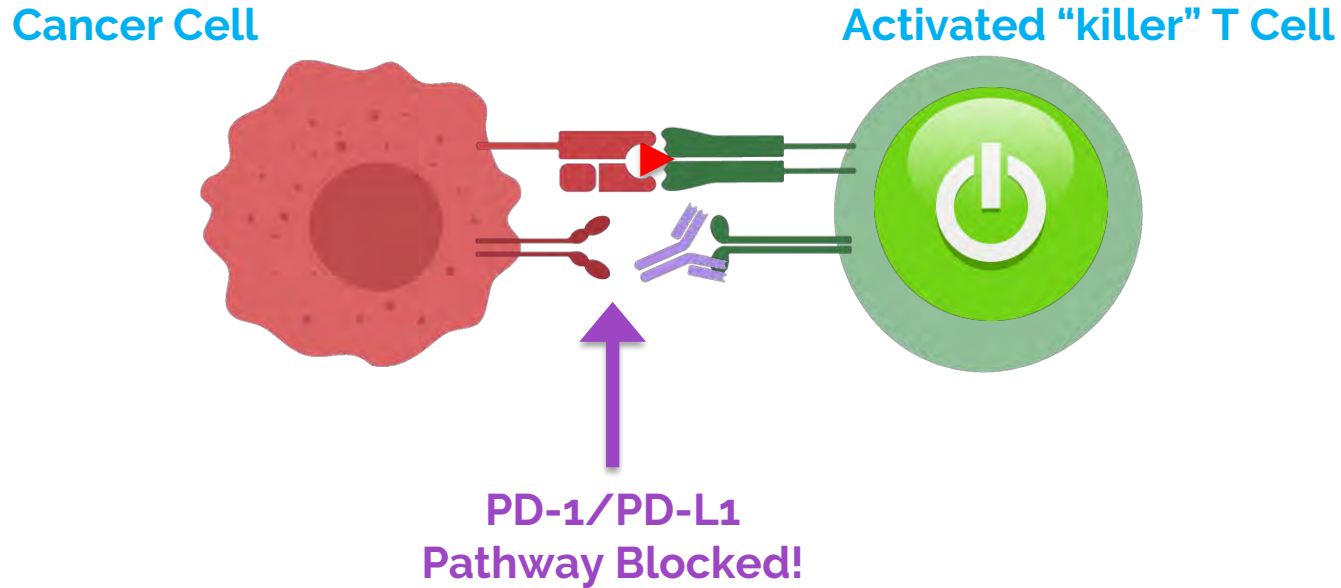


Checkpoint Immunotherapy Can Promote Anti-Cancer Activity

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Checkpoint Immunotherapy Can Promote Anti-Cancer Activity

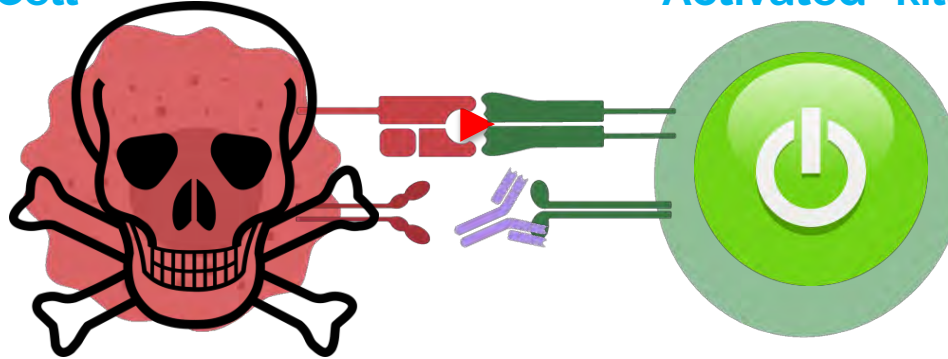
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Cancer Cell

Activated “killer” T Cell



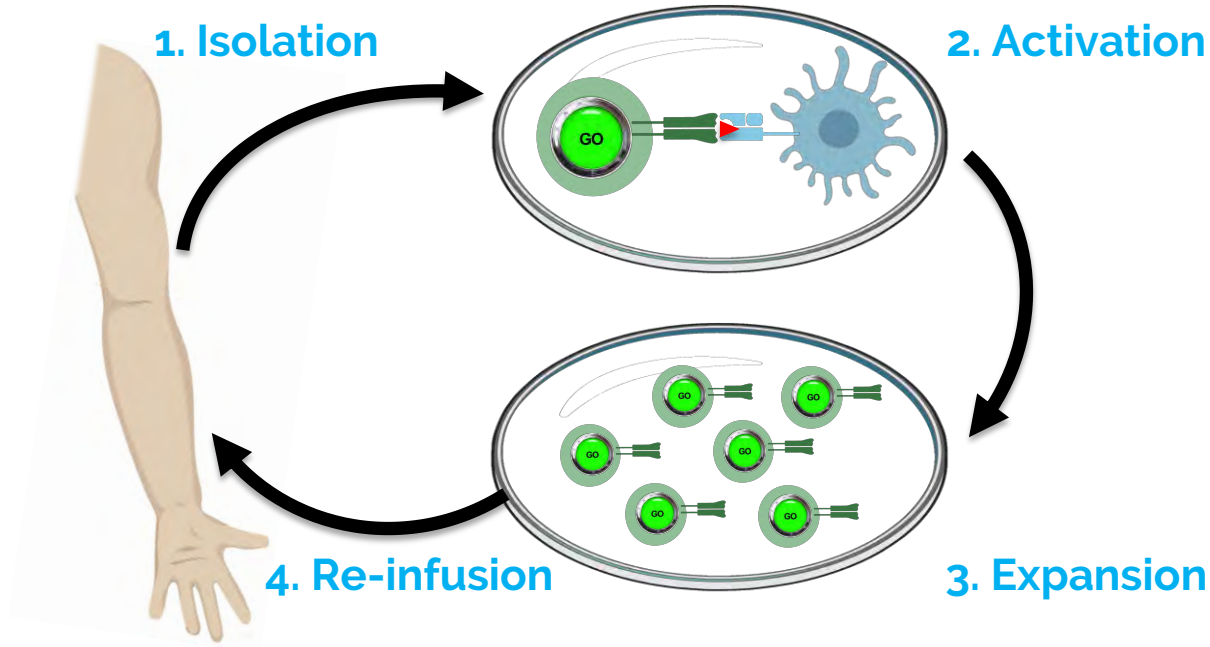
CANCER CELL ELIMINATED!

Adoptive T Cell Immunotherapy

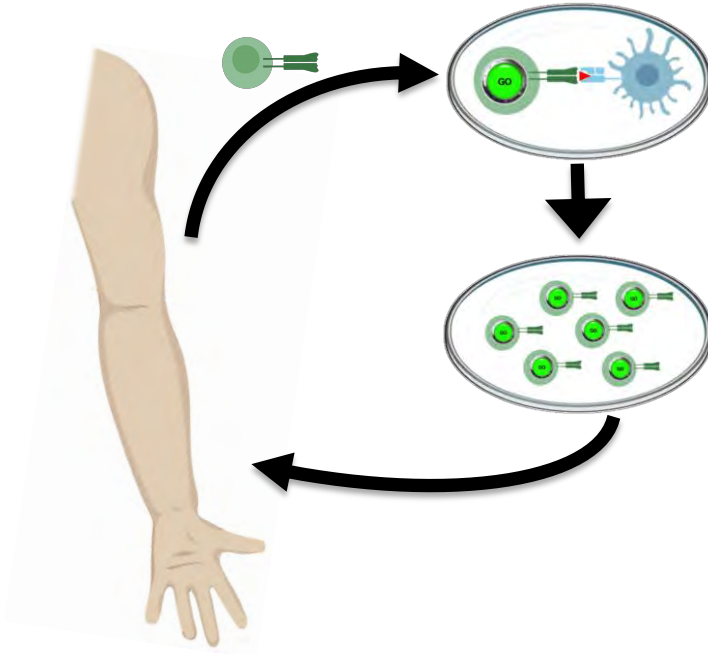
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Adoptive T Cells In Action (Against Melanoma)



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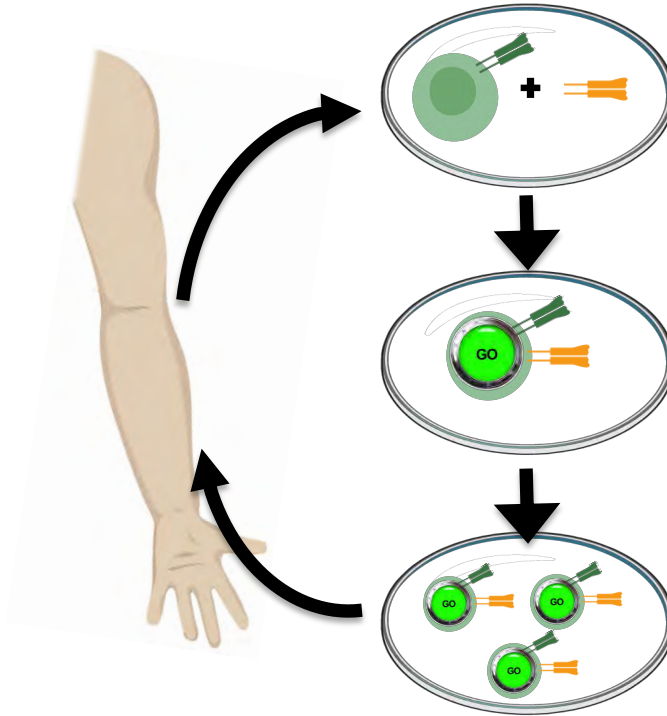
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T Cell Receptor Engineering

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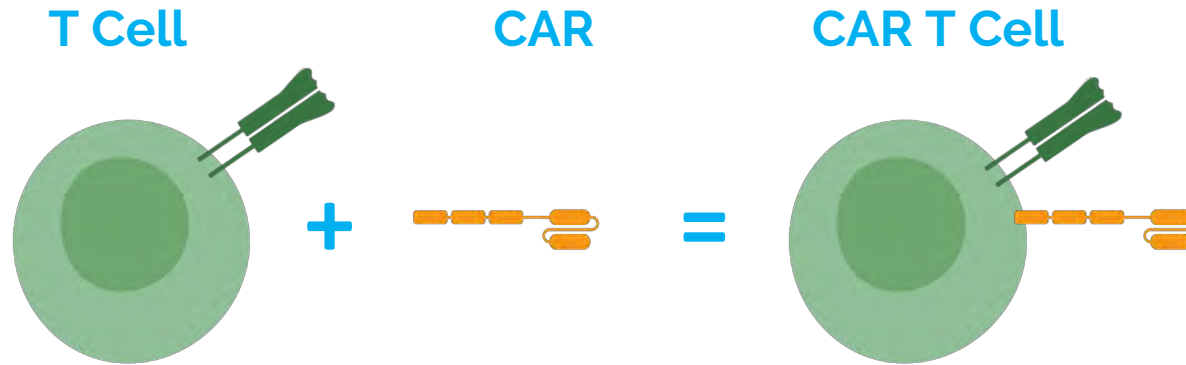
Equip T cells with new,
cancer-targeting TCR

CAR T Cell Immunotherapy (Chimeric Antigen Receptor)

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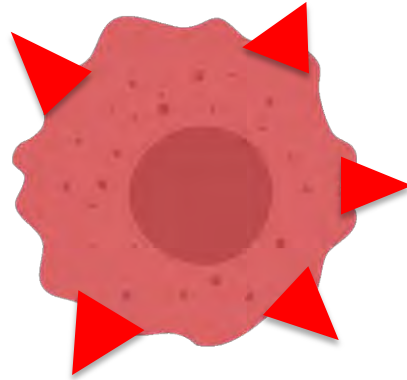
CAR T Cell Immunotherapy (Chimeric Antigen Receptor)

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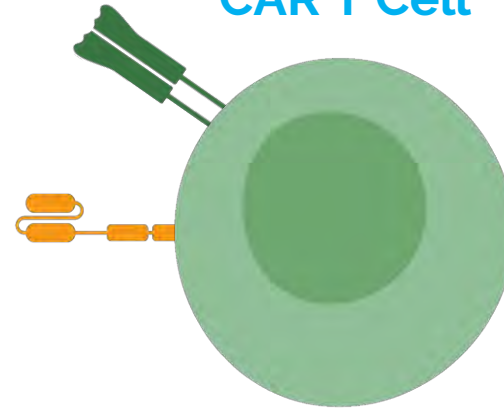
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Cancer Cell



CAR T Cell



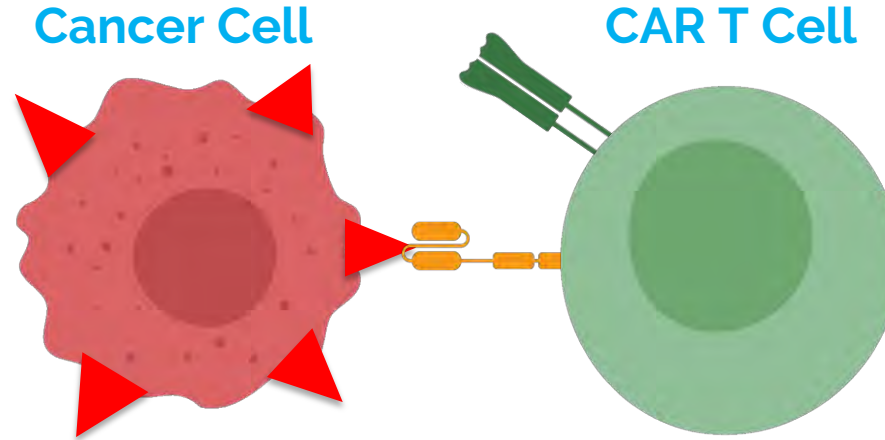
CARs enable MHC-independent targeting & killing!

CAR T Cell Immunotherapy (Chimeric Antigen Receptor)

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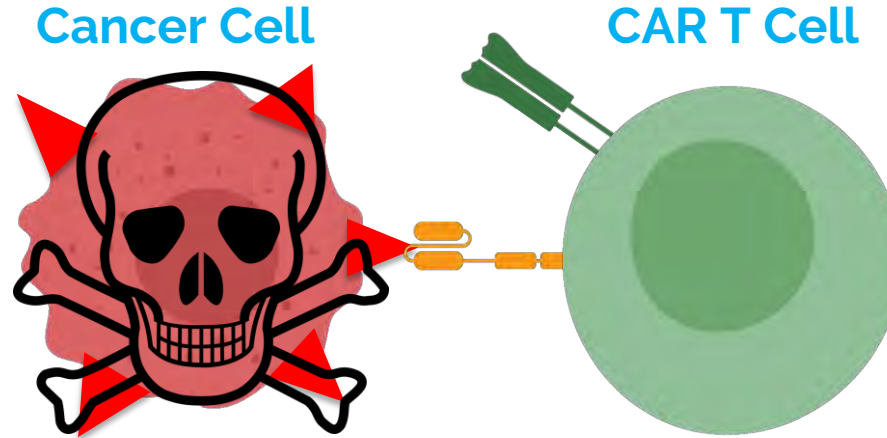
CARs enable MHC-independent targeting & killing!

CAR T Cell Immunotherapy (Chimeric Antigen Receptor)

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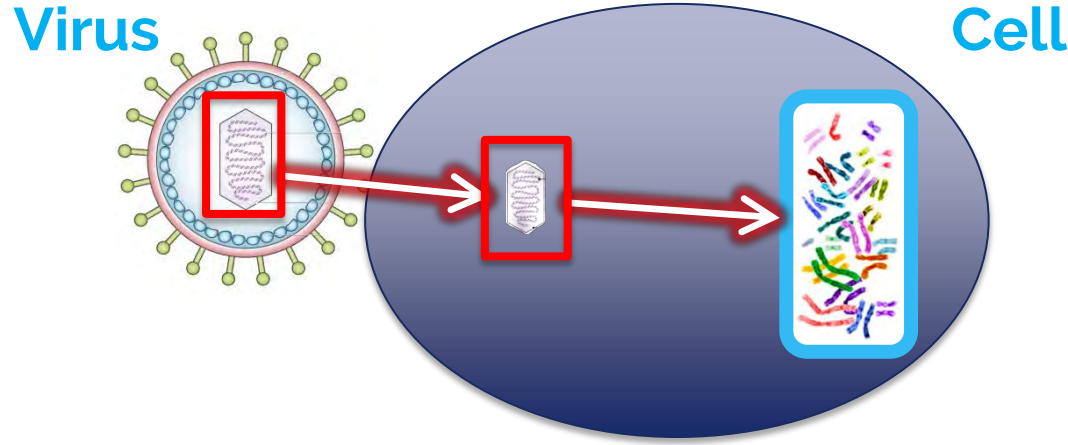
CARs enable MHC-independent targeting & killing!

Oncolytic Virus Immunotherapy

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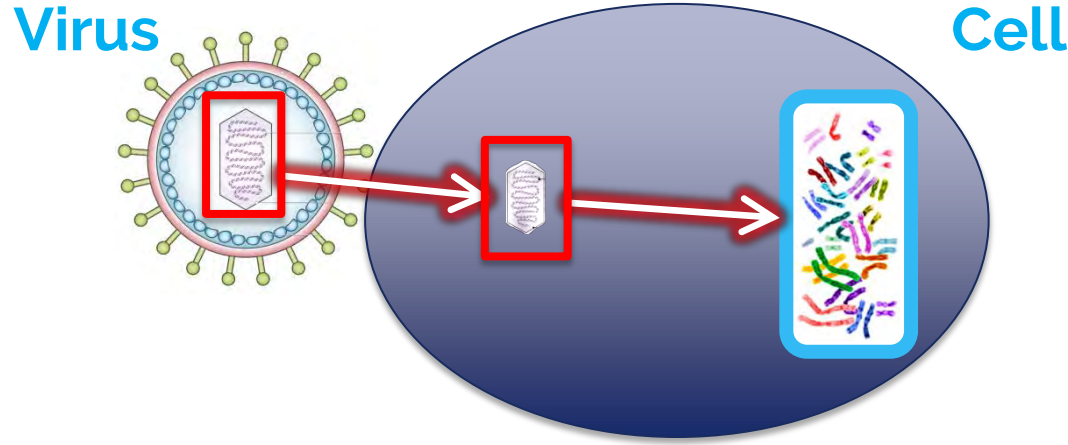
- Viruses can alter our cells' DNA, by inserting their own genetic material
- Impaired defenses make tumor cells more susceptible to infection

Oncolytic Virus Immunotherapy

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AFTER INJECTION:

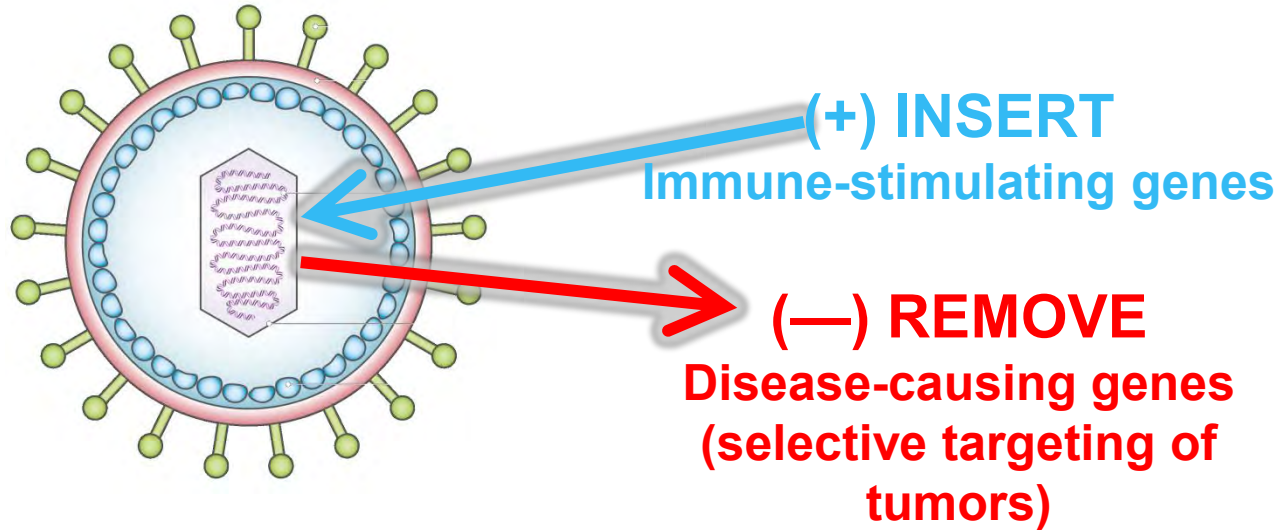
- 1) Viruses cause tumor cells to “burst” & release antigens
- 2) Immune cells uptake & present tumor antigens
- 3) Stimulates adaptive, and potentially systemic, immune responses

Reprogramming Oncolytic Viruses To Enhance Anti-Tumor Activity

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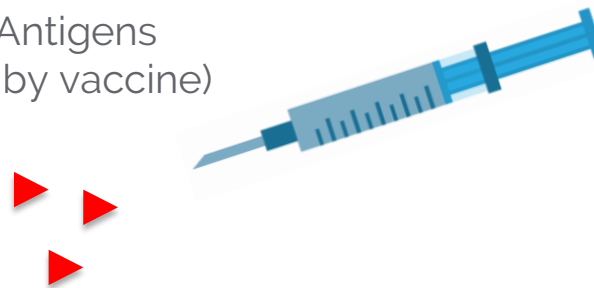
Cancer Vaccines

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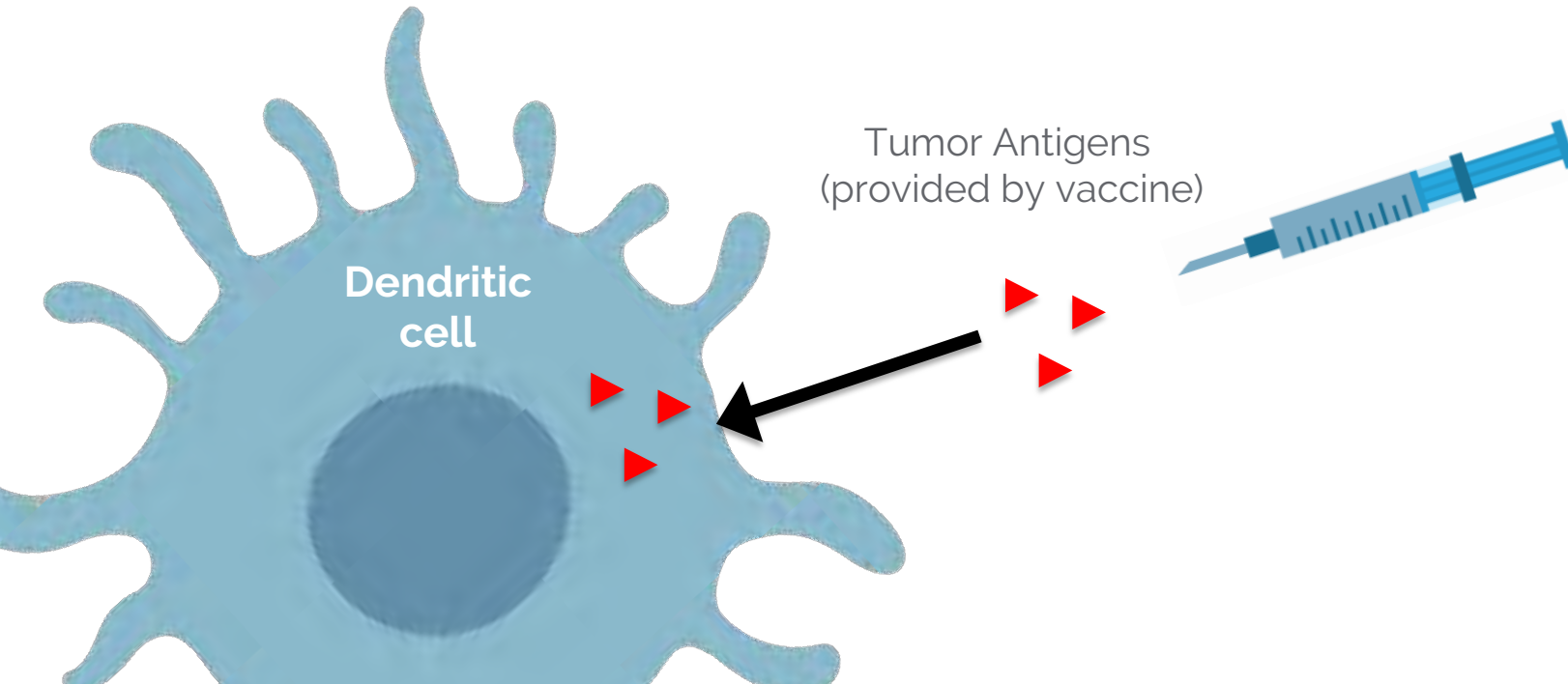
Tumor Antigens
(provided by vaccine)



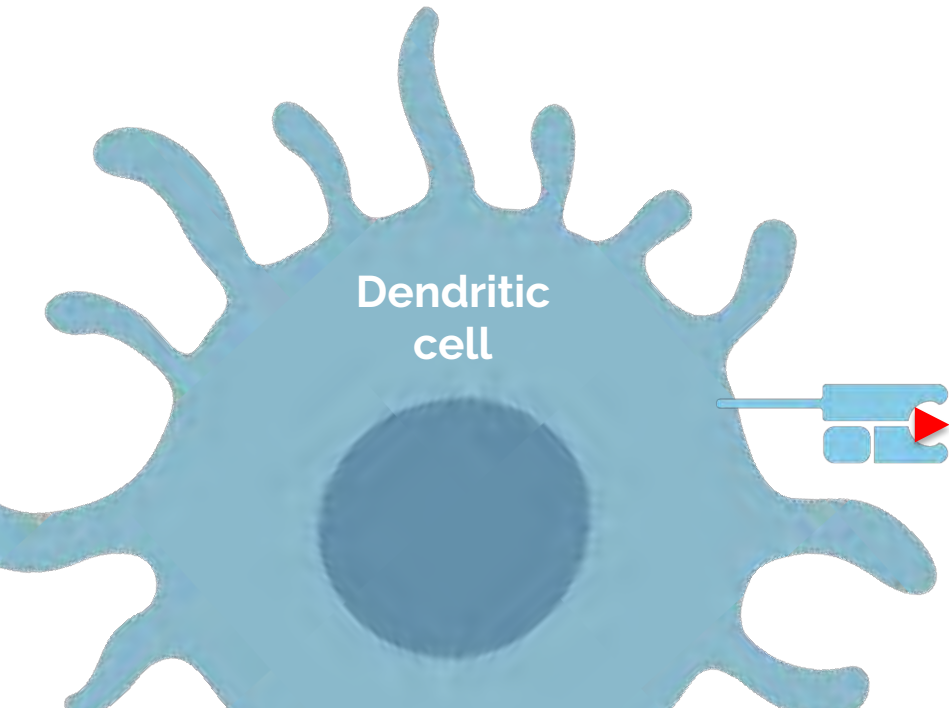
Cancer Vaccines

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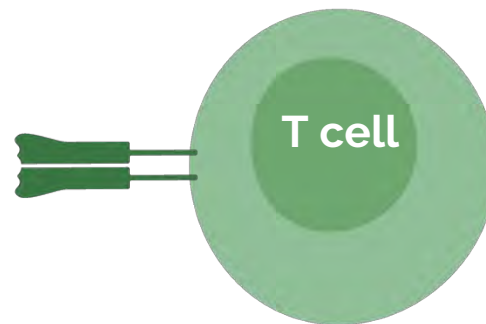
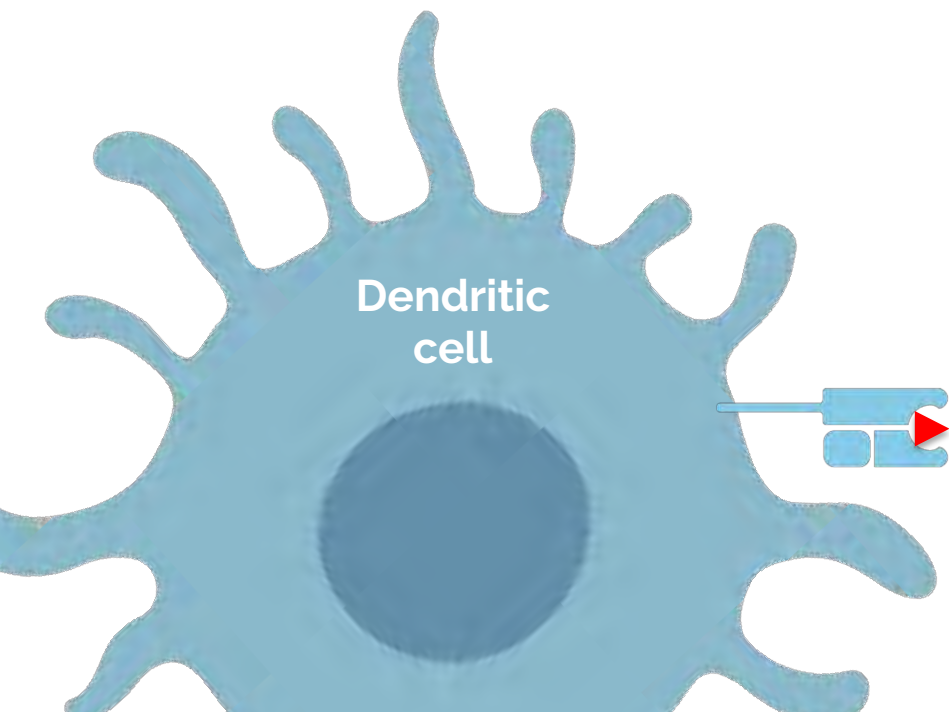
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Cancer Vaccines



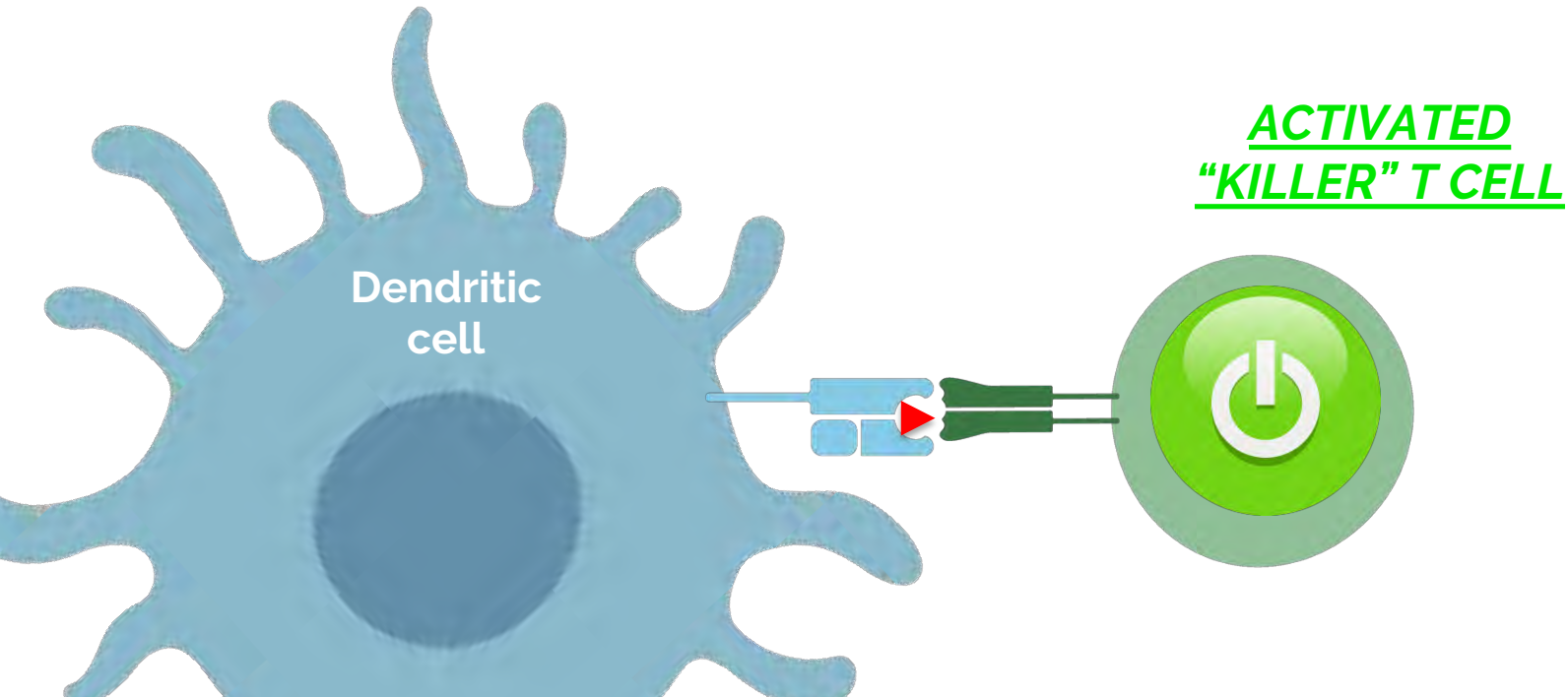
Cancer Vaccines



Cancer Vaccines

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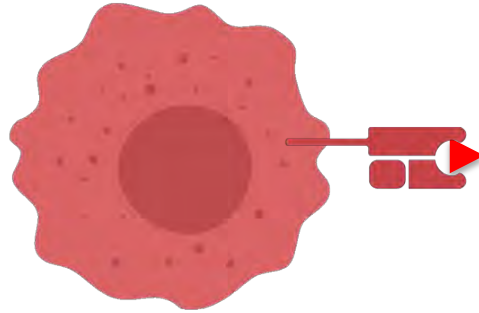
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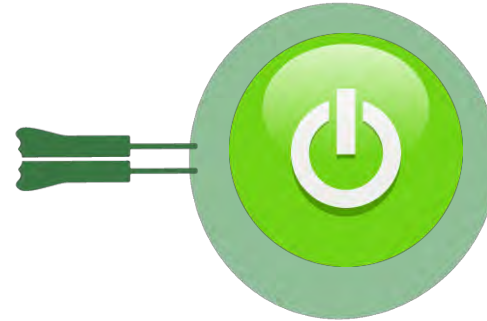
Vaccine-Induced Elimination of Cancer Cells



Cancer Cell



Activated “killer” T Cell

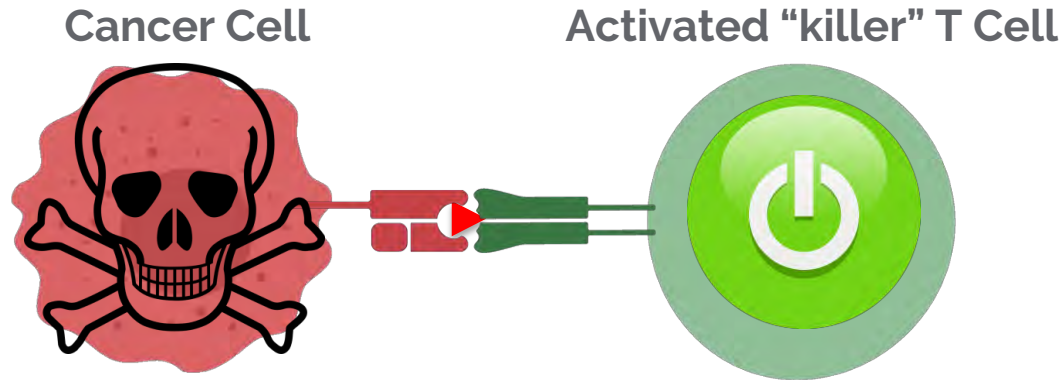


Vaccine-Induced Elimination of Cancer Cells

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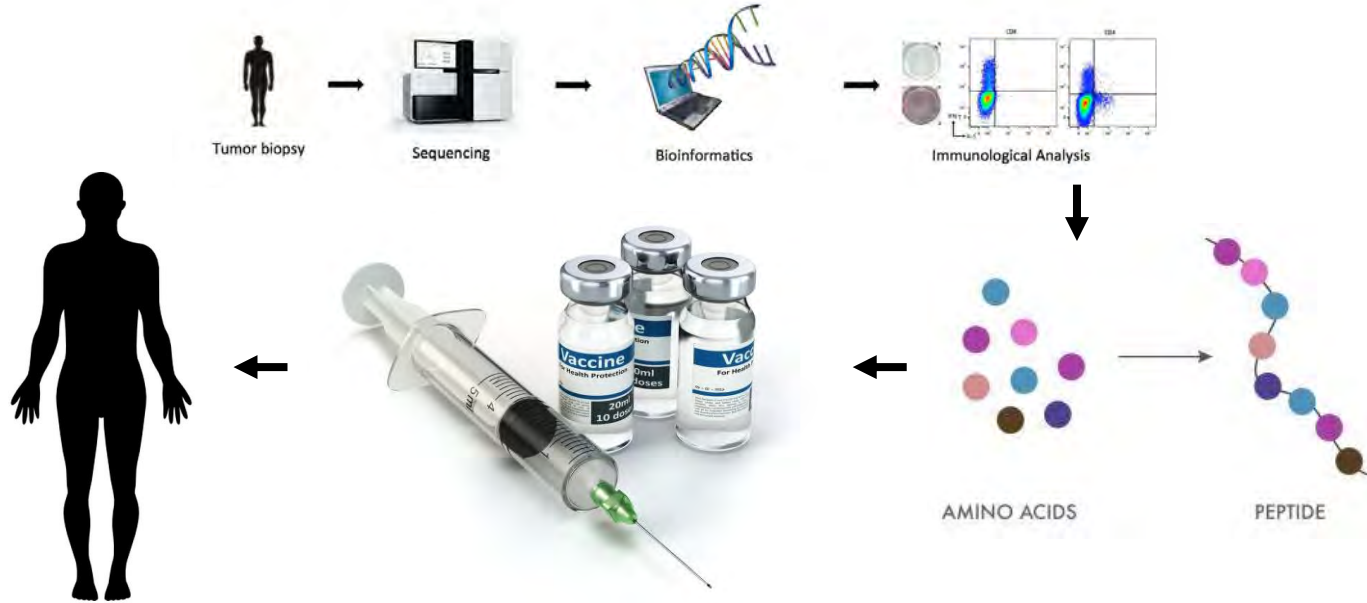
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Personalized Neoantigen Vaccine Trial

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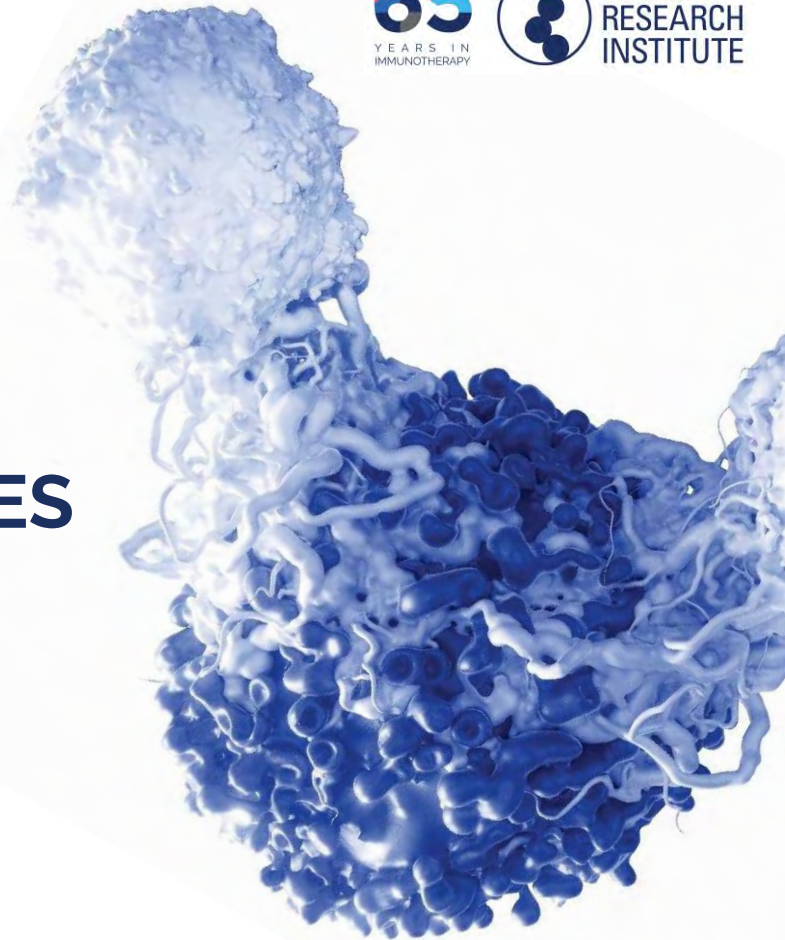
Challenges in Cancer Immunotherapy



- Discovering and validating new biomarkers to help doctors predict which patients will respond to which immunotherapies
- Determining the best way to combine immunotherapies with each other as well other treatments to extend immunotherapy's benefits for more patients
- Learning how to decouple side effects of immunotherapy from benefit

Panel Discussion

LATEST RESEARCH UPDATES



Moderator

Ezra Cohen, M.D.

Panel

Aaron M. Miller, M.D., Ph.D.

Gastrointestinal Cancers

Sandip P. Patel, M.D.

Lung Cancer

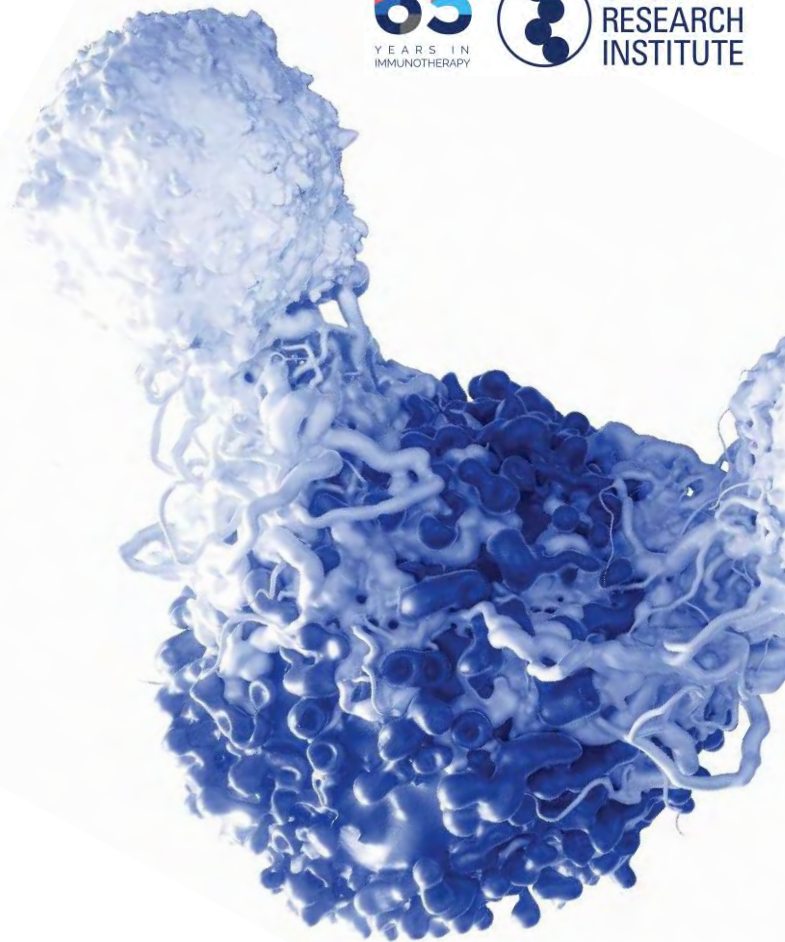
Rebecca A. Shatsky, M.D.

Breast Cancer

Kristin Kleinhofer

Surviving Acute Lymphoblastic Leukemia (ALL)

PATIENT PERSPECTIVE



How did I get to Immunotherapy?

My Journey of HOPE

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2010

August



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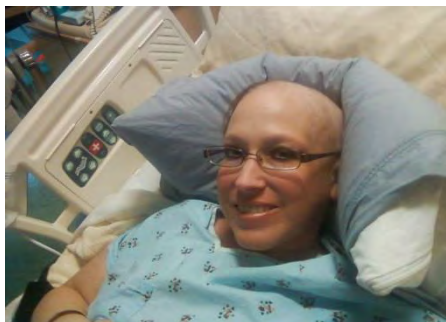
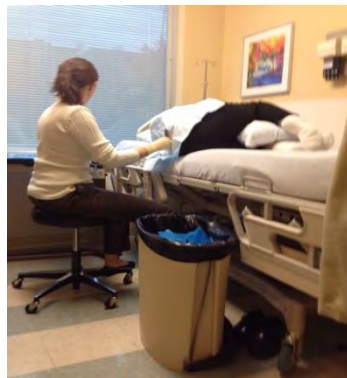


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2010 - 2012



Enjoying Life.....

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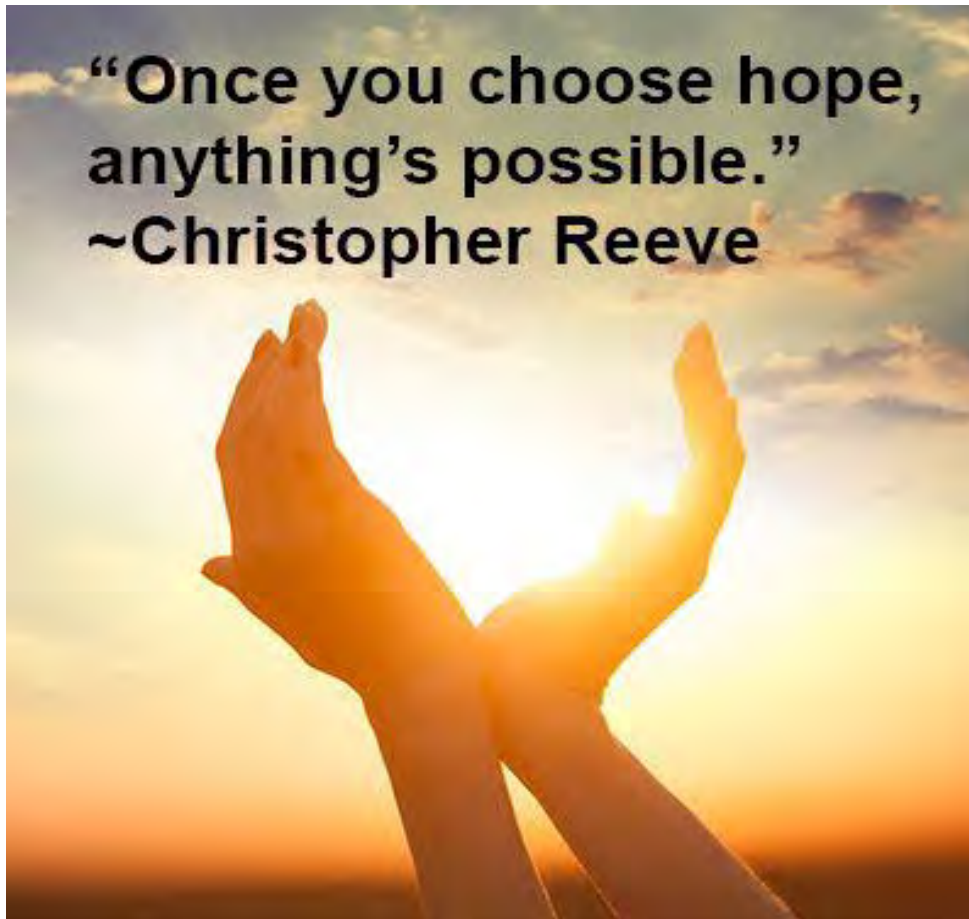
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Now What to Do?

February & March 2014



**“Once you choose hope,
anything’s possible.”
~Christopher Reeve**





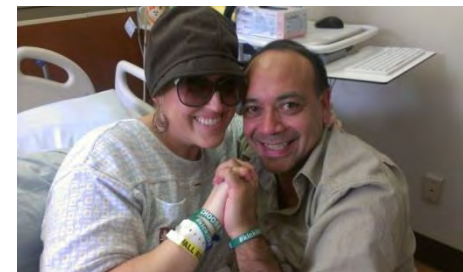
Now What to Do?

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Immunotherapy Eligibility

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May 2014





2014

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September & October



Protocol 2639

Phase I/II Study of Immunotherapy for advanced CD19+ CLL, ALL, and NHL with defined subsets of autologous T cells engineered to express a CD19 specific chimeric antigen receptor





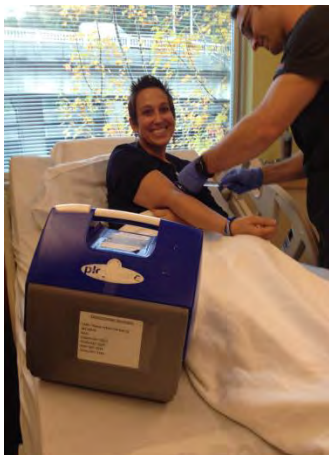
Receive

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November 19, 2014
Immunotherapy Treatment



FRED HUTCH
CURES START HERE™

Reaction

- Spiked Fever
- Hospitalization
- Cytokine Release Syndrome
- Re-hospitalization
- High Fever
- Body Chills
- Muscle Aches
- Night Sweats
- Low Blood Pressure
- Mental Fogginess



Two Weeks Later.....

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Result

HAPPY
Dance



27 out of 29 (93%) A.L.L. patients
Experience Sustained Remissions





FRED HUTCH
CURES START HERE™

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Protocol 2603

Multi-center, Open-label Randomized Study of Single or Double Myeloablative Cord Blood Transplantation with or without infusion of off-the-shelf ex vivo expanded cryopreserved cord blood progenitor cells in patients with hematologic malignancies



Receive

February 4, 2015

Transplant Journey Begins...



Result

- Engraftment
- Naive Immune System
- Release after 100 days
- Return to CA





Bucket List Continues...



Paying it Forward:

Patient Advocacy & Navigation



Takes a Village.....

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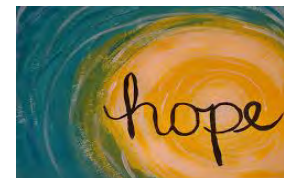


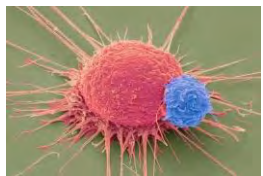
How to Make It Through the Dark Times?

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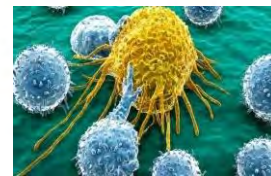
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- Choose How We Want to Live Each Day
- Take It Day by Day, Live in the Present
- Gratitude for Life's Blessings
- Positive Attitude
- Acceptance
- Knowledge is Power
- Close Partnership w/ Medical Team
- Strong Support System. Stronger Together
- Inner Strength & Resilience to Push Forward
- Faith, Spiritual Life
- Humor
- Cancer Resources
- Choosing





Immunotherapy Treatments Offer HOPE



- Clinical Trials Are Where Revolutionary Breakthroughs Begin
- Standard Treatments Exhausted or No Longer Work
- Possible Gift of More Time
- Furthering Research to Help Future Cancer Patients
- Less Toxicity & More Targeted Therapy
- Changing the Cancer Treatment Landscape
- Profound Impact on What Cancer Care Will Mean in Coming Years
- Exciting Time as More Discoveries Are Made and Perfected

IMAGINE the Day.....

Cancer will not be a Word we are afraid of. No more harsh side effects, no more relapses, just our body's immune system being led to harness its wisdom to conquer Cancer through Immunotherapy.

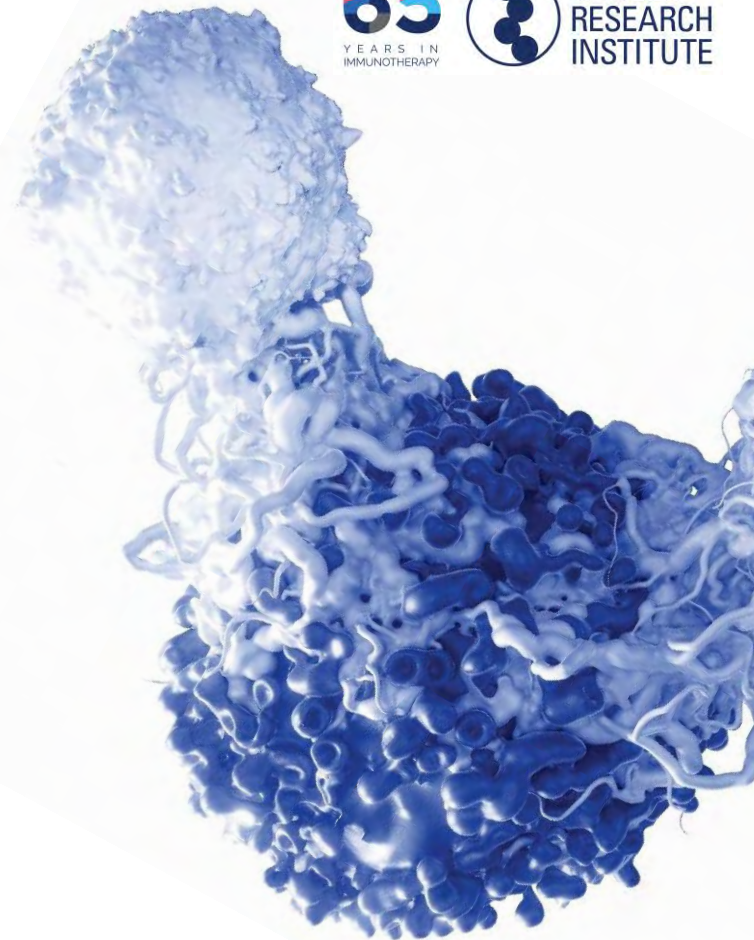
Just Imagine.

"Once you Choose Hope, Anything is Possible."



Lunch and Networking

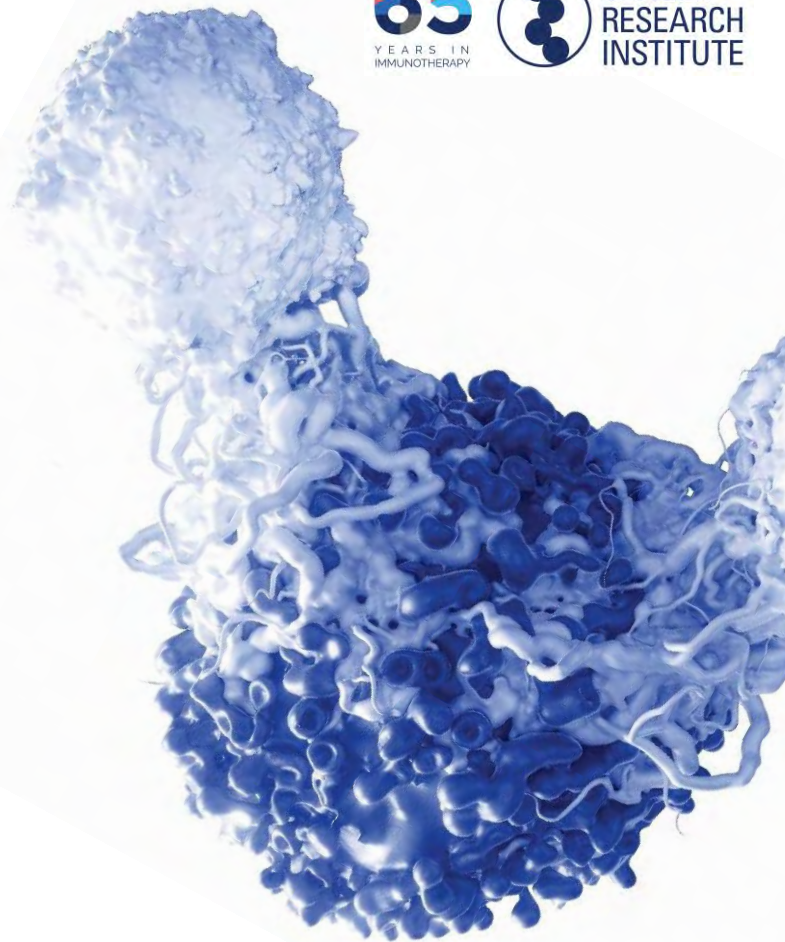
Level 1 | Room 141/143/145



Brian Brewer

Cancer Research Institute

LEARN ABOUT CLINICAL TRIALS



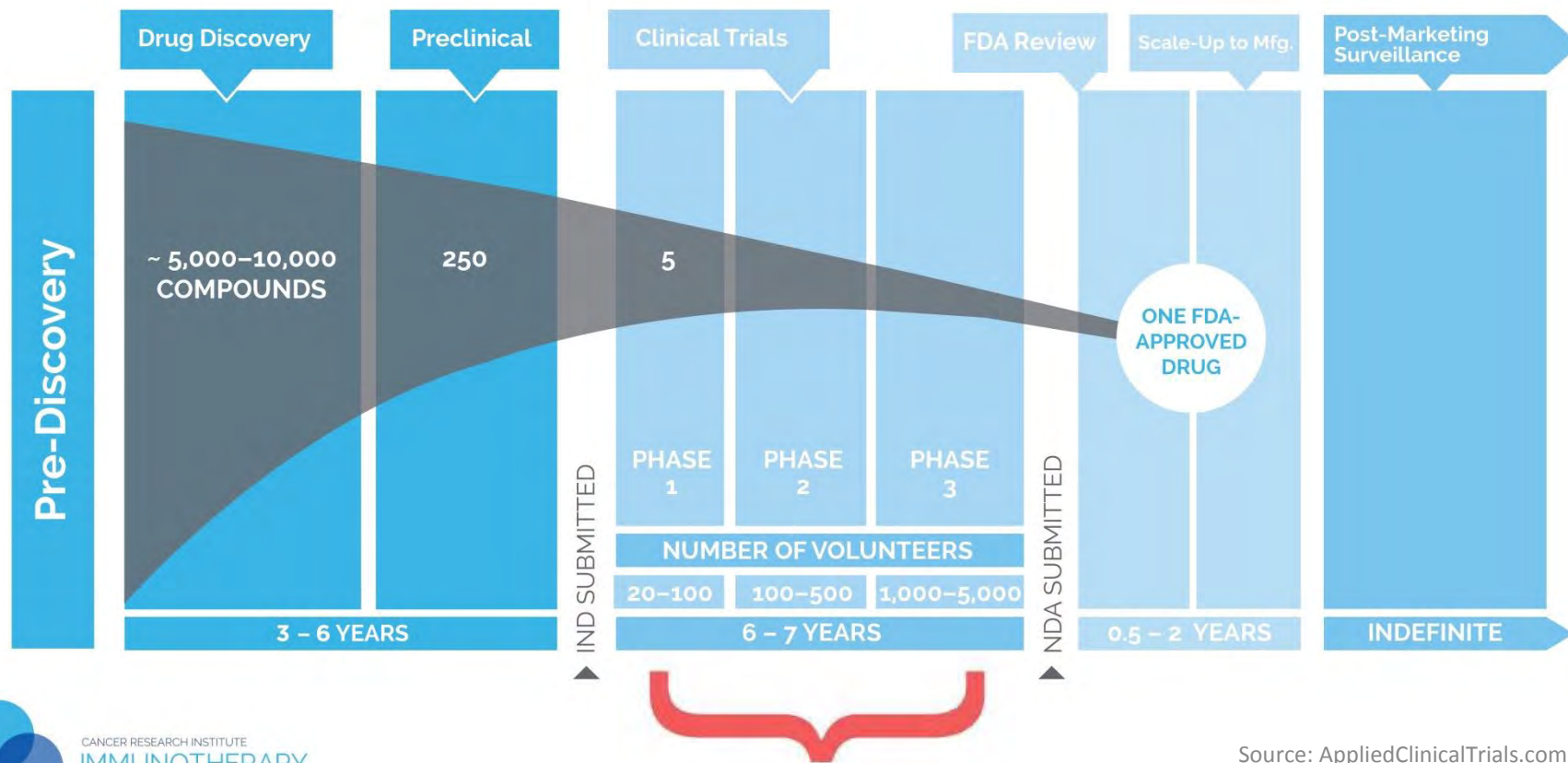
What Are Clinical Trials?



- Research studies that involve people
- Designed to answer specific questions about new and existing treatments
- Aim to improve treatments and the quality of life for people with disease

Getting from Discovery to Approval

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What Are Clinical Trial Phases?

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Phase
1



Is the treatment safe?

Purpose:

- First study in humans
- Find best dose, delivery method, and schedule
- Monitor for side effects
- Determine safety

Number of people: 20-100

Phase
2



Does it work?

Purpose:

- Look for effect on specific type(s) of cancer
- Continue monitoring for side effects and safety

Number of people: 100-500

Phase
3



Does it work better?

Purpose:

- Compare new treatment (or new use of a treatment) with current standard treatment
- Determine risk vs. benefit

Number of people: 1,000-5k+

Pros and Cons of Clinical Trials

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Potential Advantages	Potential Disadvantages
Access to best possible care	Unknown side effects or risks
Receiving new drugs before they're widely available	Unknown benefits—drugs may not work as intended
Close monitoring by medical team	Not all patients may benefit
Chance to play active role in healthcare and research	Frequent tests and clinic visits
Help future generations	Possible need to travel to trial sites

Patient Resource, "Understanding Clinical Trials: A Guide for Patients and Their Families"

Questions to Ask Before Volunteering



- Why is this trial being done?
- Why is it believed that the treatment being studied may be better than the standard treatment?
- What are my other options (standard treatments, other trials)?
- How did patients do in any previous studies of this treatment?
- How will the doctor know if treatment is working?
- How long will the trial last?

Questions to Ask Before Volunteering



- Can I continue to receive this treatment after the trial ends?
- What kinds of procedures or tests are involved?
- What impact with the trial have on my daily life?
- Will I have to travel for treatment? Will I be compensated?
- How often will I need to travel to receive treatment?
- Will I be hospitalized as part of the trial?
- What costs (if any) will be my responsibility to pay?

Getting into a Clinical Trial Isn't Always a Given



Trials are designed to ask specific questions, and must adhere strictly to entry criteria to ensure data is accurate and meaningful.

This also helps ensure patients who could be made worse by treatment are not exposed to the risk.

Common criteria include:

- **cancer type or stage**
- **treatment history**
- **genetic factors**
- **age**
- **medical history**
- **current health status**

Clinical Trials: Myth versus Fact

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MYTH

I might only get placebo
("sugar pill") instead of treatment.

FACT

Placebos are rarely used and never given
in the absence of some form of treatment.

Clinical Trials: Myth versus Fact

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MYTH

Trials are only for people who have run out of treatment options (a “last resort”).

FACT

Clinical trials are designed for people with cancer of all types and stages.

Clinical Trials: Myth versus Fact

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MYTH

I need to travel to a large hospital or cancer center to participate in a clinical trial.

FACT

Trials take place at local hospitals, cancer centers, and doctors' offices in all parts of the country, in both urban and rural areas.

Clinical Trials: Myth versus Fact

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MYTH

My health insurance doesn't cover the cost of care in a clinical trial.

FACT

Doctor visits, hospital stays, and certain testing procedures may be covered by insurance. Research costs are typically covered by the trial sponsor.

Clinical Trials: Myth versus Fact

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MYTH

Signing a consent form “locks” me into staying in a trial.

FACT

Fact: You are free to change your mind for any reason about participating in a trial anytime before or during a trial.

Clinical Trials: Myth versus Fact

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MYTH

I will be made to feel like a
“guinea pig” experiment.

FACT

Fact: The overwhelming majority of trial participants say they were treated with dignity and respect, and report having had a positive experience in a trial.

Clinical Trials: Myth versus Fact

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MYTH

Clinical trials aren't safe.

FACT

Fact: Safeguards including an Institutional Review Board, Data and Safety Monitoring Board, and an ongoing informed consent process ensure patients' rights and safety are protected.

A Word About Informed Consent

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Informed consent = having all the facts before and during a trial

- Study purpose
- Length of time of the study
- Predictable risks
- Possible benefits
- Expectations
- Patient's rights
- Treatment alternatives
- Patient health monitoring
- Safeguards in place
- How to withdraw from study

**Be bold in asking for details.
It's YOUR treatment plan.**

How Can I Find a Clinical Trial?

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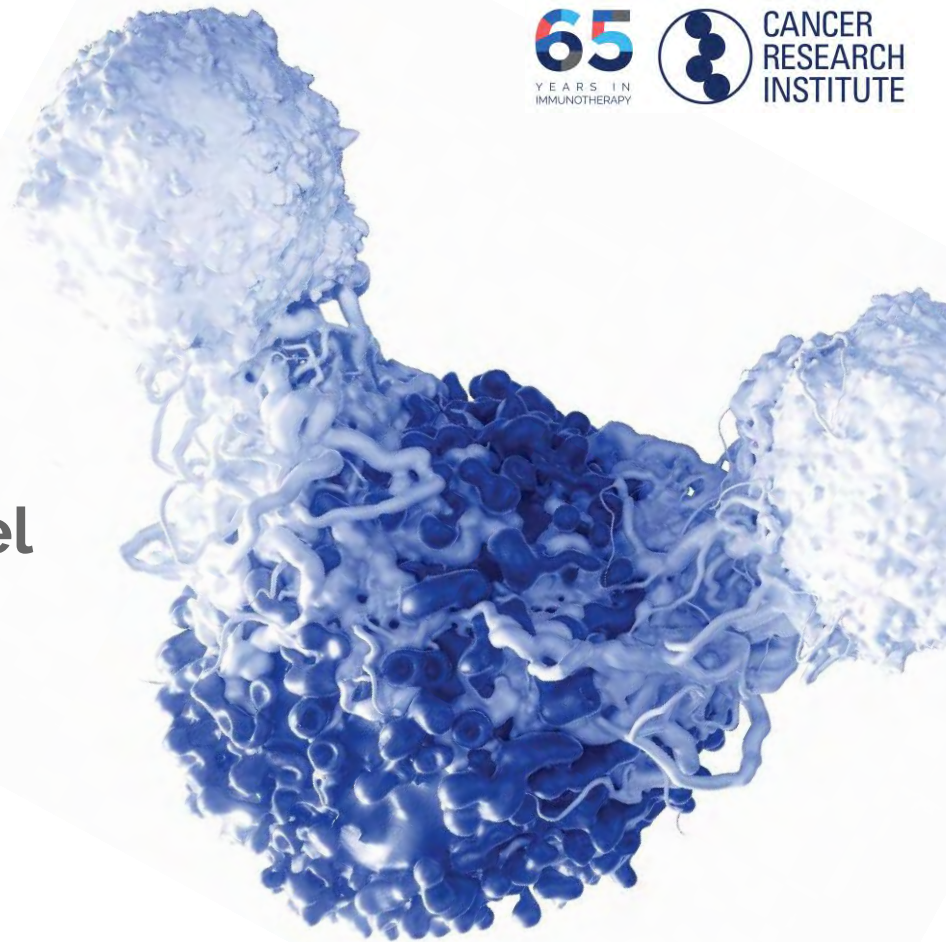
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- Ask your doctor
- Ask another doctor if necessary...
- Contact a patient advocacy organization
 - Seek assistance from a clinical trial navigator, if offered
 - CRI Clinical Trial Finder: 1 (855) 216-0127
- Search online
 - <https://www.cancerresearch.org/patients/clinical-trials>
 - <https://clinicaltrials.gov/>



Panel Discussion

Immunotherapy Patient Panel



Moderator

Brian Brewer

Panel

Dan Engel

Melanoma

Kristen Kleinhofer

Acute Lymphoblastic Leukemia (ALL)

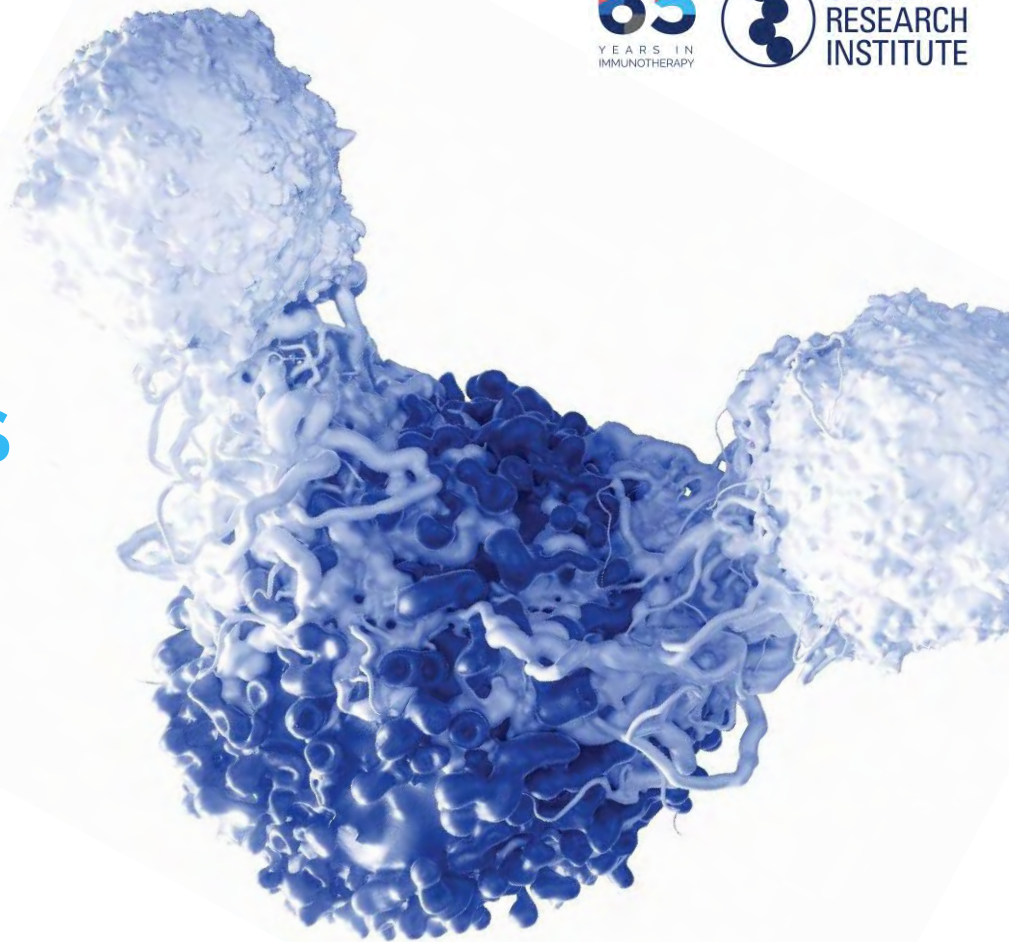
Rikki Rockett

Oral Cancer

Rebecca S.

Breast Cancer

BREAKOUT SESSIONS



Breakout Session Rooms



General Immunotherapy

Ezra Cohen, M.D., Ph.D.

Level 1

Auditorium

Breast Cancer

Rebecca A. Shatsky, M.D.

Level 1

Room 141/143/145

Lung Cancer

Sandip P. Patel, M.D.

Level 2

Rooms 215

Gastrointestinal Cancers

Aaron M. Miller, M.D., Ph.D.

Level 2

Room 204

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Thank you to those who helped promote the summit

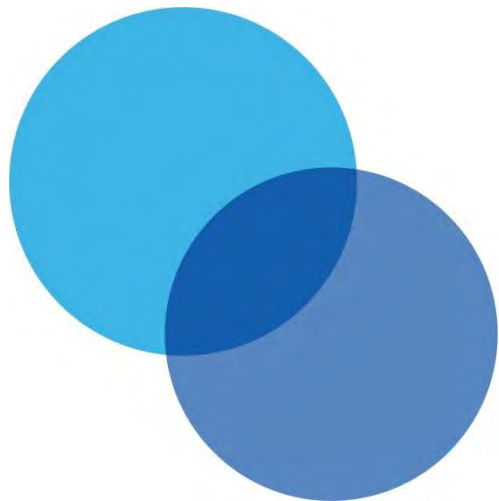
- Addario Lung Cancer Foundation
- American Cancer Society
- But Doctor I Hate Pink (Ann Silberman)
- Cancer Support Community
- CancerCare
- Colorectal Cancer Alliance
- Fight Colorectal Cancer
- FORCE
- Imerman Angels
- Leukemia & Lymphoma Society
- LUNgevity Foundation
- Let Life Happen (Barbara Jacoby)
- Patient Empowerment Network
- SHARE
- UC San Diego Moores Cancer Center
- Us TOO
- Young Survival Coalition

Thank You!



You will receive two emails after the summit:

1. **A survey** to share your feedback on the summit as well as insights into future programming.
2. **Information** from the Summit day, including this presentation and instructions on how to use our [Clinical Trial Finder service](#).



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San Diego October 27, 2018